



# **Wiring Diagrams**

**for Mobile, RV and  
AUX GenSets**

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**To be used *ONLY* by**

Distributor  
Service Organization

or

Distributor/Dealer

# WIRING DIAGRAMS FOR MOBILE ELECTRIC GENERATING SETS

All the wiring diagrams in this manual apply to Onan electric generator sets used in RV, AUX, or other special Mobile applications. When using the diagrams, remember that all components are shown in their de-energized position unless otherwise noted. Find the model in question in the left hand column (which matches the generator set nameplate), then look to the right for the applicable wiring diagram number and the page where it is located. For detailed service information, refer to the Master Service Manual for the respective unit, the RV Training Manual (932-0402) and the Controls Training Manual (932-0406).

MODEL NUMBER AND SPEC LETTER	WIRING DIAGRAM	SEE PAGE
2.5AJ-1E/6000K	605-0110	8
2.5AJ-1E/12006K,M	605-0110	8
2.7AJ-1R/12020K,M,N	611-1106	52
2.7AJ-1R/16010N	611-1106	52
2.7AJ-1R/16016N	611-1106	52
3.0AJ-1R/16017P,R	611-1140	61
3.0AJ-1R/16017S	611-1148	66
3.0AJ-1R/16018D,R,S	611-1148	66
2.5LK-1E/6000K,12006K,13036K,13036M	605-0110	8
2.5LK-1E/6820K,10819K	605-0083	5
2.5LK-1E/10898K	605-0107	6
205LK-1RV6000/1E,1F,1G,7060F,7193F,7740G	610-0266	12
205LK-1RV6000/1H	610-0313	14
205LK-1RV6000/7641G	610-0310	13
205LK-1RV6000/7641H	610-0320	17
2.5LK-1,2,3R/1C	610-0266	12
2.5LK-1R/6000H,6000J,8098G,8486J,8781H,8782H,9525J, 9903H,9903J,10298H,10497H,10545L, 10545J,10689J,10801J,10850J,11215J, 11426J,12000J,12006J,12820J,13646J, 14185J,14185L	610-0315	16
2.5LK-1R/10935J	605-0108	7
2.5LK-3CR/10801J	610-0338	18
2.5LK-3CR/10850J	610-0314	15
2.5LK-3CR/12000M,1L	610-0350	19
4.0BF-1R/9000A,14122A	611-1094	51
4.0BF-1R/9000B,9000C	611-1109	53
4.0BF-1R/9500A	611-1094	51
4.0BF-1R/15203B,15203C	611-1121	54
4.0BF-3CR/16000A,16002A	611-1123	55
4.0BF-3CR/16000B,16002B,16004B	611-1127	56
4.0BF-8R/16000B,17389B,20793B	611-1127	56
4.0BFA-1R/16000A,16004A	611-1135	59
4.0BFA-1R/16004B,16004C,16004D,16012C,17389C	611-1146	64
4.0BFA-1R/16015B,16015C,16020B,16020C	611-1147	65
4.0BFA-1R/16019A,16020A	611-1138	60
4.0BFA-3CR/15000C,20275A,20275C,22353C,22593C, 25206C,25505C,26651C,27014C, 27318C,27919C,26805C	611-1142	63
4.0BFA-5DR/22540C,22541C	606-0205	9

# MODEL NUMBER AND SPEC LETTER

# WIRING DIAGRAM

# SEE PAGE

## RV Gasoline (Continued)

4.0BGE-1R/26100A,26100B,26100C,26101A,26101B,26101C, 26102A,26109A,26109B,26109C,28202C	611-1174	76
4.0BGEL-1R/26110A,26110B,26111A,26111B,26112A	611-1174	76
5.0BGA-3CR/16000A	611-1135	59
5.0BGA-3CR/16019A,16020A	611-1138	60
5.0BGA-3CR/16004B,16004C	611-1146	64
5.0BGA-3CR/16015B,16015C,16020B,16020C	611-1147	65
4.0BGD-FB/1932A,7512A,30503A,30504A	611-1182	79
4.0BGE-1R/26100D,26100E,26101D,26101E,26109E	611-1174	76
4.0BGE-1R/26100F,26101F,26109F	611-1180	78
4.7BGE-1R/26100A,26101A	611-1174	76
4.0BGE-3CR/28202C,28202E,30981E	611-1176	77
4.0BGEL-1R/26110D,26111B,26111D	611-1174	76
5.0BGM-FA/26105A	611-1186	81
4.0CCK-**R/1J	611-0236	23
4.0CCK-1R/1J through 23J,1681J,6000J,7723J,8010J,8782J	611-0914	30
4.0CCK-1R/6000N,6000P,8643P,9290N,9525N,9525P,9625N 10108N,10108P,10298P,11411P,11497P	611-1035	36
4.0CCK-1R/8216J,8444J,9633P,9638N	611-1002	35
4.0CCK-1R/8793J,9470P,9620N,9840N,10476N,10476P, 11191P,11586P,11673P,11852P	611-1036	37
4.0CCK-1R/8815J	611-1039	39
4.0CCK-1R/9403J,10156J,10729J	611-1049	41
4.0CCK-1R/9381N	611-1054	44
4.0CCK-3R/6000J	611-0839	27
4.0CCK-3R/6000P,9381N,9381P	611-1067	46
4.0CCK-3CR/6000J	611-0975	34
4.0CCK-3CR/6000P,9525P	611-1035	36
4.0CCK-3CR/6000R,9525R,11693R,11721R,12000R,12019R, 12273R,12276R,13290R,14608R,16557R	611-1086	50
4.0CCK-3CR/17389U	611-1127	56
4.0CCK-3CR/15000U,16000U,16004U,20887U,21378U, 22650U,23659U,24044U	611-1142	63
5.0CCK-1R/1A	611-0176	22
5.0CCK-2R/1A	611-0176	22
5.0CCK-1RV6000/1J,5360J,6000J,7036J,7036P,1681J,12J	611-0914	30
5.0CCK-1RV6000/13J	611-0957	32
5.0CCK-1R/8216J,8444J,9469J,9633N	611-1002	35
5.0CCK-1R/6000N,6000P,8643P,8686P,8779J,9290N,9525N, 9525P,9625N,9641N,9701N,10108P, 10476N,10476P,10883P,11040P,11479P	611-1035	36
5.0CCK-1R/8815J	611-1039	39
5.0CCK-1R/9403J	611-1049	41
5.0CCK-1R/9470N,9470P,9620N,11191P,11852P,12015P	611-1036	37
5.0CCK-3RV/4262J,4262F,5662J	611-0676	24
5.0CCK-3RV/5121J	611-0786	25
5.0CCK-3RV/5222J	611-0801	26
5.0CCK-3RV/5605J	611-0164	21
5.0CCK-3RV/5262J	611-0871	28
5.0CCK-3CRV6000/1J,5360J	611-0839	27
5.0CCK-3CRV6000/12J	611-0975	34
5.0CCK-3RV6000/13J	611-0963	33
5.0CCK-3RV6206J,7823J	611-0902	29

# MODEL NUMBER AND SPEC LETTER

## RV Gasoline (Continued)

# WIRING DIAGRAM

# SEE PAGE

5.0CCK-3CR/6000R,10108R,11979R,12000R,12019R,12233R, 12276R,13040R,14618R,14780R,16437R, 16557R,16778R	611-1086	50
5.0CCK-3CR/9329J,9494N	611-1047	40
5.0CCK-3CR/9403J	611-1061	45
5.0CCK-3CR/9433J,9433N	611-1050	42
5.0CCK-3CR/8793J,9525N,9620N	611-1036	37
5.0CCK-3CR/1U,2U,3U,15000U,20508U,21378U,23034U	611-1142	63
5.0CCK-4R/18089U,16000U,17386U,17789U	611-1127	56
5.0CCK-4R/23969U	611-1142	63
5.0CCK-5DR/12018R,12233R	611-1086	50
5.0CCK-5DR/17233U	611-1127	56
6.0CCKB-3R/6000B,7821B,8327B	611-0955	31
6.0CCKB-3R/6000C,6000D,7821C,7821D,8327C,8779B,9525C, 9525D,9525E,10339C,11544D,12000D, 12000E	611-1037	38
7.5DKD-FJ/27798C,27799C	AC 612-6184	82
7.5DKD-FJ/27798C,27799C	DC 612-6353	83
8.0DKD-3CR/29686B	AC 612-6442	85
8.0DKD-3CR/29686B	DC 612-6441	84
8.0DKD-FJ/29686C,32448C	AC 612-6442	85
8.0DKD-FJ/29686C,32448C	DC 612-6441	84
15.0DL3-J/30437A,30438A	AC 612-6460	86
15.0DL3-J/30437A,30438A	DC 612-6442	85
2.2KV-FA/26100A	610-0375	20
2.8KV-FA/26100A	610-0375	20
6.0NH-1R/9000A,9500A	611-1094	51
6.0NH-1R/9000E,9000G,9000H	611-1109	53
6.5NH-3CE/10000D,21880L	606-0215	11
6.5NH-3CE/16375D,16777D	606-0209	10
6.5NH-3CR/6000A,10005A	611-1052	43
6.5NH-3CR/6000B,6000C,8686C,10005C,10182C,10621C, 11590C,11632C,11845C	611-1079	48
6.5NH-3CR/10250A	611-1076	47
6.5NH-3CR/10760C	611-1080	49
6.5NH-3CR/1D,9D,12D,13D,14D,6000D,12000D,12230D, 12894D,15336D	611-1086	50
6.5NH-3CR/15000D,15000L,18768L,19701L,23033L, 23034L,25051P	611-1142	63
6.5NH-3CR/16000J,16002J,16004J,17789J,18629J	611-1127	56
6.5NH-3CR/16000A,16000K,16004K	611-1135	36
6.5NH-3CR/16004M,16004N,16004P,16013P,26785P	611-1146	64
6.5NH-3CR/16019K,16020K,20909K	611-1138	60
6.5NH-3CR/16020M,16020N,16020P	611-1147	65
6.5NH-3CR/17198D,18105D,18106D	611-1134	58
6.3NHEL-1R/26110D,26111D	611-1174	76
6.5NHEL-1R/26110C,26111C	611-1174	76
6.5NHE-1R/26100C	611-1174	76
6.5NHE-1R/26100D,26100E,26101D	611-1180	78
6.5NHE-FA/26101E	611-1180	78
6.5NHE-3CR/30982C,30983C	611-1176	77



**MODEL NUMBER AND SPEC LETTER****WIRING DIAGRAM****SEE PAGE****RV Gasoline (Continued)**

6.3NHL-3CR/16013P	611-1167	73
6.3NHL-3CR/16014P	611-1169	74
6.3NHEL-1R/26110A,26111A	611-1174	76
6.5NHE-1R/26100A,26101A	611-1174	76

**AUX Sets**

4.0BFA-1R/23000C,23001C,23003C,23004C	611-1160	69
6.5NH-3CR/23000P,23001P,23002P,23003P,23004P	611-1160	69
3.0RDJA-1R/23001U	611-1163	70
4.0DKC-3CR/23006B <sup>1</sup> ,23007B <sup>2</sup>	AC 612-6184	82
7.5DKD-3R/23008B,23009B	AC 612-6184	82
7.5DKD-3R/23008B,23009B	DC 612-6353	83
7.5DKD-3CR/23006B <sup>1</sup> ,23007B <sup>2</sup>	DC 612-6353	83
7.5DKD-5DR/23006B	AC 612-6184	82
7.5DKD-5DR/23006B	DC 612-6353	83
7.5DKD-FB/23006C,23007C,23008C,23009C	AC 612-6184	82
7.5DKD-FB/23006C,23007C,23008C,23009C	DC 612-6353	83

**Diesel RV Sets**

7.5DKD-3CR/27798A <sup>1</sup> ,27798B <sup>2</sup>	AC 612-6184	82
7.5DKD-3CR/27799A <sup>1</sup> ,27799B <sup>2</sup>	DC 612-6353	83
7.5DKD-FJ/27798C,27799C	AC 612-6184	82
7.5DKD-FJ/27798C,27799C	DC 612-6353	83
8.0DKD-3CR/29686B	AC 612-6442	85
8.0DKD-3CR/29686B	DC 612-6441	84
8.0DKD-FJ/29686C,32448C	AC 612-6442	85
8.0DKD-FJ/29686C,32448C	DC 612-6441	84
15.0DL3-J/30437A,30438A	AC 612-6442	85
15.0DL3-J/30437A,30438A	DC 612-6460	86
12.0RDJC-3R/21680AC	612-5787	71

**Mobile and Commercial Units**

4.0BFA-5DR/29309D (Time Manufacturing)	611-1142	63
4.5BGD-FB/1A,30502A	611-1182	79
4.5BGD-FD/1A,30502A	611-1184	80
6.5NH-5DR/26725P (Gen Cable)	611-1170	75
6.3NHD-FB/1932A,1932B,7512A,7512B,30503A,30503B, 30504A,30504B	611-1182	79
6.5NHD-FB/1A,1B,30502A,30502B	611-1182	79
6.5NHD-FD/1A,1B,30502A,30502B	611-1184	80

**REPLACEMENT CONTROLS FOR 300-0859 PRINTED CIRCUIT BOARD  
KIT NUMBER**

300-1598 CCK,NH with Onan Choke (RV)	611-1141	62
300-1599 CCK,NH with Sisson Choke (RV)	611-1141	62
300-2026 CCK,NH with Onan Choke & Start-Disconnect for RV	611-1157	68
300-2027 CCK,NH with Sisson Choke & Start-Disconnect for RV	611-1157	68
300-1884 Standard CCK,NH with Onan Choke	611-1152	67
300-1885 Standard CCK,NH with Thermo-Magnetic Choke	611-1152	67

<sup>1</sup>=STD FAN ROTATION<sup>2</sup>=REV FAN ROTATION

# 605A83

IGNITION & START  
SWITCH NO. 308A140 \*

(B) A OFF  
ON  
B START

POS. 1 A & B OFF  
POS. 2 A ON, B OFF  
POS. 3 A ON, B ON MOM.

SUPPRESSION  
CAPACITOR  
(M)

IGNITION  
COIL

(N) FUEL SOL.  
NO. 307A1303

SPARK  
PLUG

(D) RECEPTACLE BOX NO. 330A68  
COVER - RECP BOX NO. 330-16

(2) CAP ASSY  
NO. 312A180

RECP - DUPLEX  
NO 323P107

(F) \* COMPONENTS  
FURNISHED AS PART  
OF 191C709

(G) START  
SOLENOID \*  
NO. 307B1031

\* RECTIFIER 25A  
NO 305A235

\* RESISTOR 25W.  
NO 353A28

GENERATOR

SER. FLD.

COMM

SHUNT FLD.

BATTERY  
12V

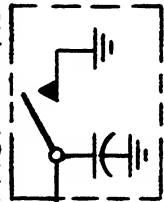
NOTE: AC LEAD UNGROUNDED  
IN GENERATOR

N	ADDED FUEL SOLENOID	GT	9-10-74
M	ADDED CAPACITOR	GT	12-10-71
L	ADDED 50 CY	GT	6-9-70
K	WAS 323-184	GT	4-24-70
J	ADDED DASH NO	GT	4-23-70
H	CAP ASSY WAS 312A52	GT	10-31-68
C	REVERSED RES. & RECT.	GT	8-23-68

(J) (L) (A)

-01 120 V., 1 PH.,  
2 W., 50/60 CY.

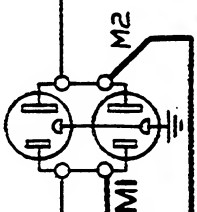
BREAKER &  
CAPACITOR ASSY



(E) RECEPTACLE BOX NO. 330A68  
COVER - RECP BOX NO. 330-16

(2) CAP ASSY  
NO. 312A180

RECP - DUPLEX  
NO 323P107



G	WAS 307B367	GT	7-10-68
F	WAS "FURNISHED BY CUSTOMER"	GT	5-15-68
E	WAS 330A66 # 330-42	GT	5-15-68
E	RECP BOX WAS 330A67	GT	3-8-68
A	WAS 105AJ-1EV/6820K	GT	2-23-68
D	ADDED RECP BOX & PARTS	GT	2-13-68
C	ADDED RES. & RECT.	GT	12-5-67
B	REV. IGNITION & START SW.	GT	12-5-67
A	WAS 205AJ-1EV/6541K	GT	12-5-67
LET.		ENG	CKR
		DATE	

Ongn

DIVISION OF STUDEBAKER INDUSTRIES, INC.  
Minneapolis, Minnesota

DATE	10-24-67	DR.	CDR	ENGR.	G.F.T.	CKR.	WJB	SC.	~
NAME									
MODEL									

WIRING DIAGRAM  
ENG. - GEN. CONTROL

DWG. NO.

205AJ-1EV/6820K

605A83

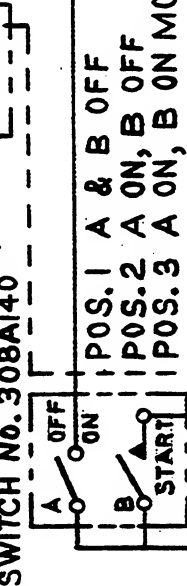
605-107

9728

A

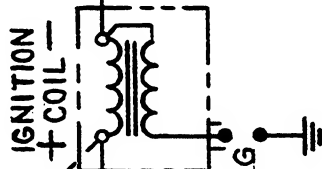
REMOTE IGN' & START  
SWITCH NO. 308A140 REF

IGNITION & START \*

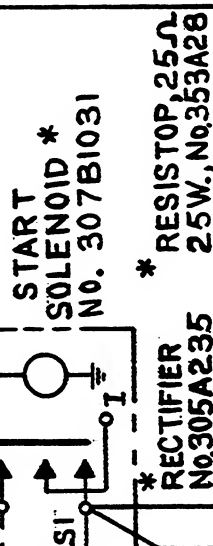


POS. 1 A & B OFF  
POS. 2 A ON, B OFF  
POS. 3 A ON, B ON MOMENTARY

SPARK PLUG



IGNITION  
+ COIL -



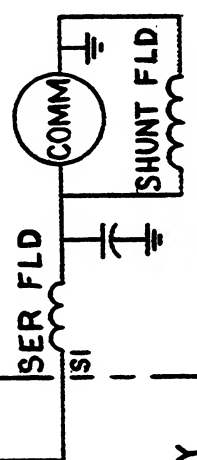
START  
SOLENOID \*

NO. 307B1031

\* RECTIFIER 25W, 25Ω  
NO. 305A235

ELECTRIC  
CHOKER

GENERATOR



SER FLD

COMM

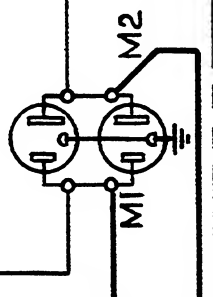
SHUNT FLD



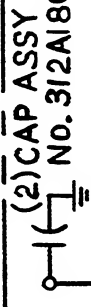
M1

M2

\* COMPONENTS  
FURNISHED AS PART  
OF 191C709



RECP-DUPLEX  
NO. 323P707



RECEPTACLE BOX NO. 330A68  
COVER - RECP BOX NO. 330-16

BREAKER &  
CAPACITOR ASSY



NOTE:  
PLANT MUST BE STOPPED  
BY THE SAME SWITCH THAT  
WAS USED TO START IT.

DR C I P	SC	REVISION	ENG	CHK	DATE
CKR					
<div style="text-align: center;"> </div>					
<div style="text-align: center;">           DIVISION OF ONAN CORPORATION            Minneapolis, Minnesota         </div>					
ENG' G. F. T. DATE 6-7-71					
CONTROL-GEN SET (WIRING DIAGRAM)					

120 V, 1PH,  
2 W., 50/60 CY

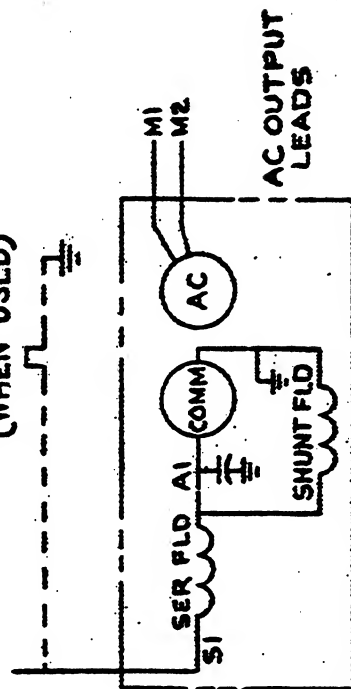
2.5AJ-1E/10898K

605-107

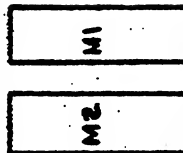
DWG  
SIZE  
A

605A108

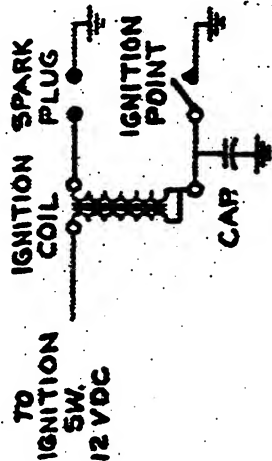
ELECTRIC CHOKE  
(WHEN USED)



AC SLIP RINGS



COMM END ← → BEARING END



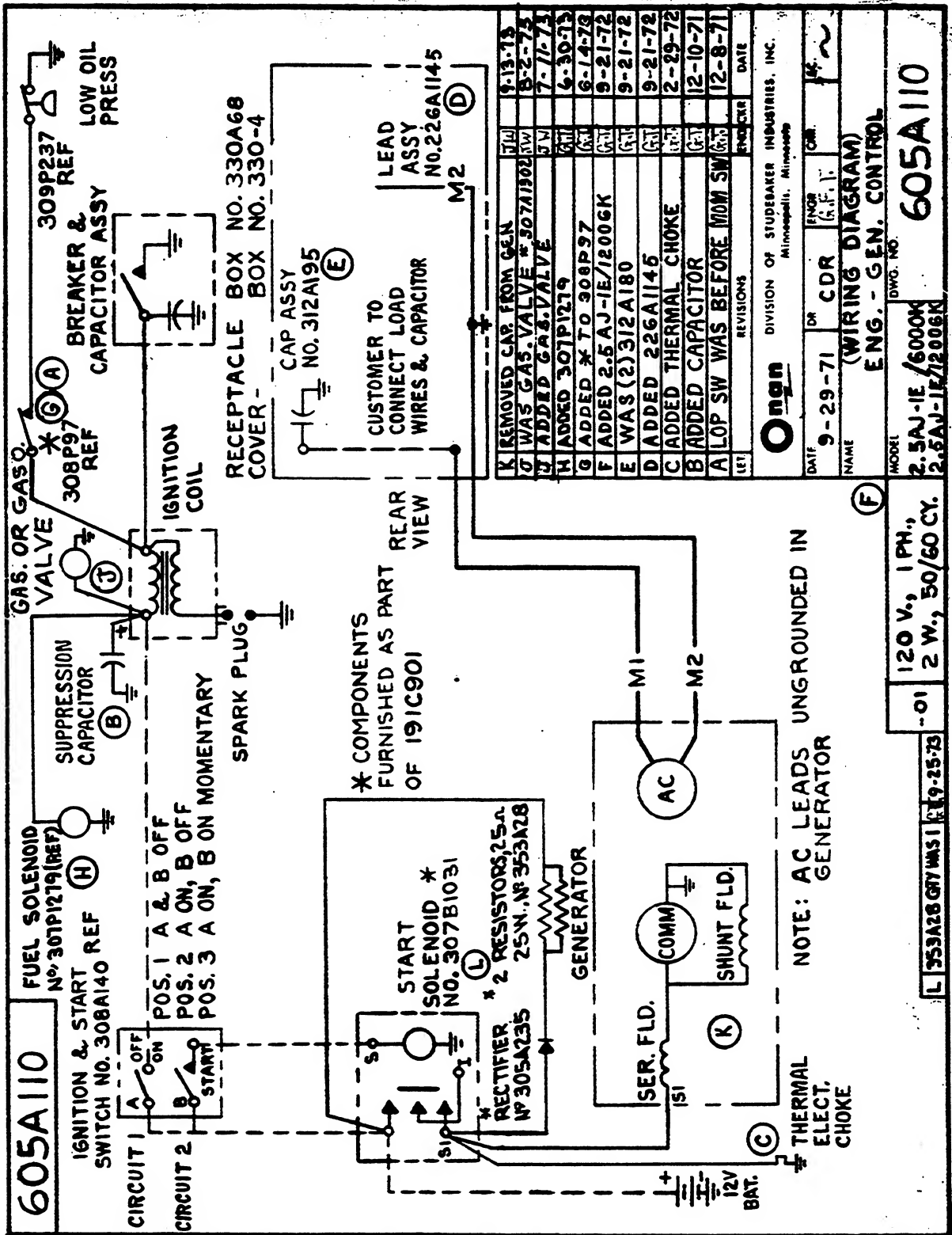
M2 GROUNDED AC LEAD, M1  
HAS 0.1 MFD CAPACITOR TO GROUND

NAME ENGINE GEN SET  
(WIRING DIAGRAM)

MODEL 2.5LK-1R/10935J

605A108

LET	REVISIONS	ENG	CHK	DATE
DIVISION OF STUDEBAKER INDUSTRIES, INC.				
Minneapolis, Minnesota				
DATE	6-16-71	DR	CDR	SC
		ENGR	G.F.T.	CHK
<p>605A108</p>				

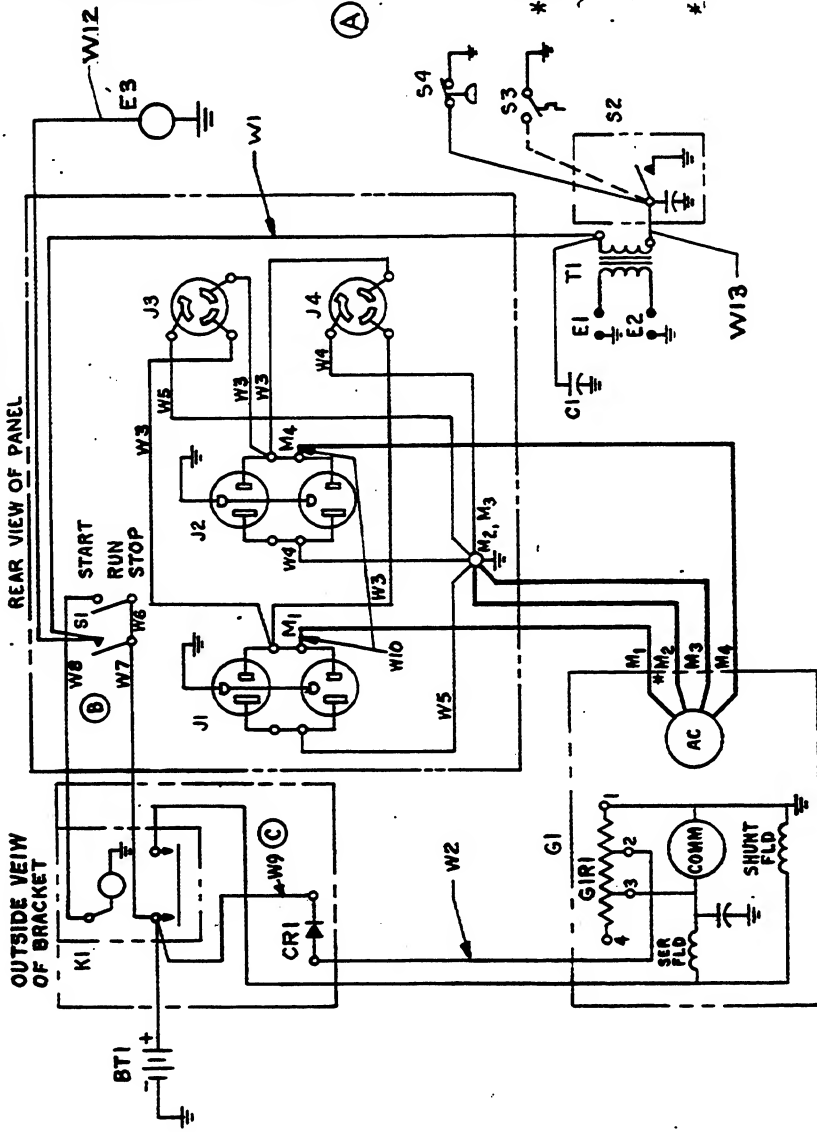




606-0209

OUTSIDE VIEW OF BRACKET

REAR VIEW OF PANEL



PARTS LIST			
REF	DES	PART NO.	DESCRIPTION
A1		300-1318	CONTROL ASSY
CR1		305-0235 REF	RECTIFIER
		305-0254 REF	BRKT-RECTIFIER MTG.
J1, J2		323-0184 REF	RECEPTACLE, DUPLEX, 120 V
J3, J4		323-0855 REF	RECEPTACLE TWISTLOCK, 240V
K1		307-1031 REF	SOLENOID
S1		308-0140 REF	SWITCH-START STOP RUN
W1		338-1185 REF	LEAD ASSY
W2		338-1889 REF	LEAD ASSY
W3		338-2127 REF	LEAD ASSY
W4		338-1570 REF	LEAD ASSY
W5		338-1888 REF	LEAD ASSY
W6		337-0088 REF	LEAD ASSY
W7		338-1878 REF	LEAD ASSY
W8		338-0388 REF	LEAD ASSY
W9		228-1155 REF	LEAD ASSY
W10		308-0003 REF	JUMPERS
W11		338-0842 REF	HARNES MOD
W12		336-1802 REF	LEAD ASSY
W13		336-0402 REF	LEAD ASSY
ENG GEN PARTS LIST			
BT1			BATTERY
C1			CAPACITOR-0.1 MFD
E1,2			SPARK PLUG
G1			GENERATOR
G1R1			RESISTOR-GENERATOR
S2			BREAKER & CAP ASSY
S3			HATKO
S4			LOPKO
T1			COIL-IGNITION
E3			ELECTRIC FUEL PUMP

\* WHEN USED

\* GROUNDED AC LEAD, OTHERS HAVE  
.1 MFD CAPACITOR TO GROUND IN GEN

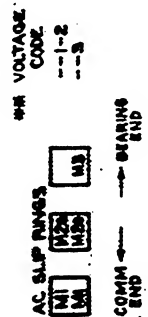
C	ADDED W9	CR 100	3-26-77
B	REVISED S1 WIRING	CR 100	3-24-77
A	ADDED ITEMS W12, W13	CR 100	10-2-75
REV	REVISION	CR	DATE
1			
DIVISION OF STAMBAUGH CORPORATION MILWAUKEE, WISCONSIN			
MOD NO	9-3-75	WMA	W
CONTROL - GEN SET (WIRING DIAGRAM)			
120/240 V, 1 PH, 4 W, 60 CY		606-0209 B	



NOTE: M2 LEAD IS INTERNALLY GROUNDED IN GENERATOR

ER	1219	- RISE FOR PROD REVISION /		SHEET NO.	606-0215	DATE	C
141	O	DIVISION OF CHAM CORPORATION Minneapolis, Minnesota	MINN	7-79	WIRING DIAGRAM	10/1	8
ROL							





610C266	9920019
PARTS LIST (ENG-GEN)	
1 BATTERY 12 VOLT	

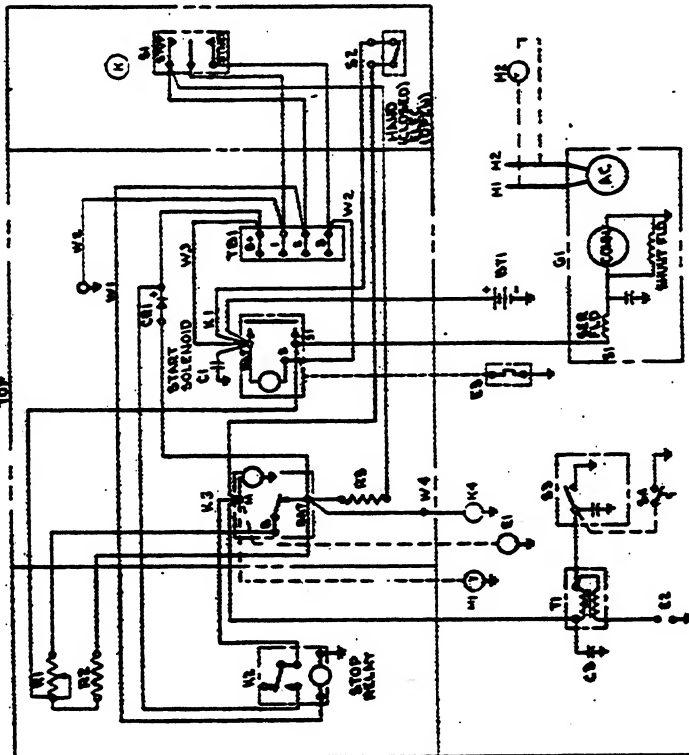
♦ WHEN USED

01	SECRET	10-2 TO 10-1 CONTROL - GEN SEC (WIRING DIAGRAM)	610C266
10-2 TO 10-1 CONTROL - GEN SEC (WIRING DIAGRAM)		10-2 TO 10-1 CONTROL - GEN SEC (WIRING DIAGRAM)	



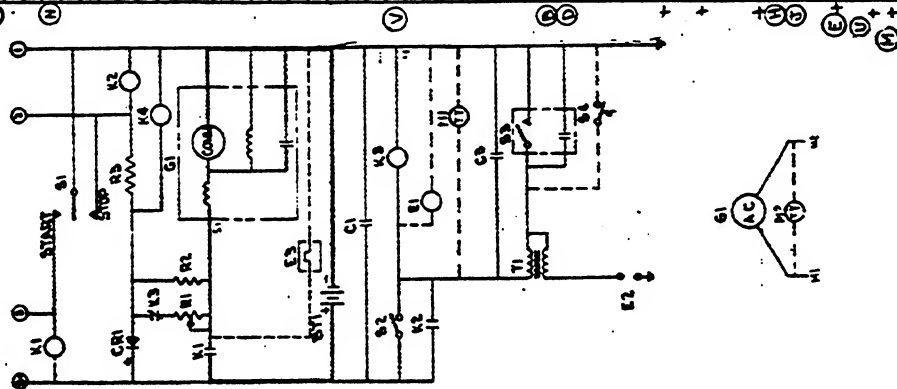
610C313

WIRING DIAGRAM  
INSIDE VIEW OF BOX  
TOP



NOTE:  
W2 IS GROUND AC LEAD  
W1 HAS A .1 MFD CAPACITOR TO  
GROUND IN GENERATOR.

SCHEMATIC



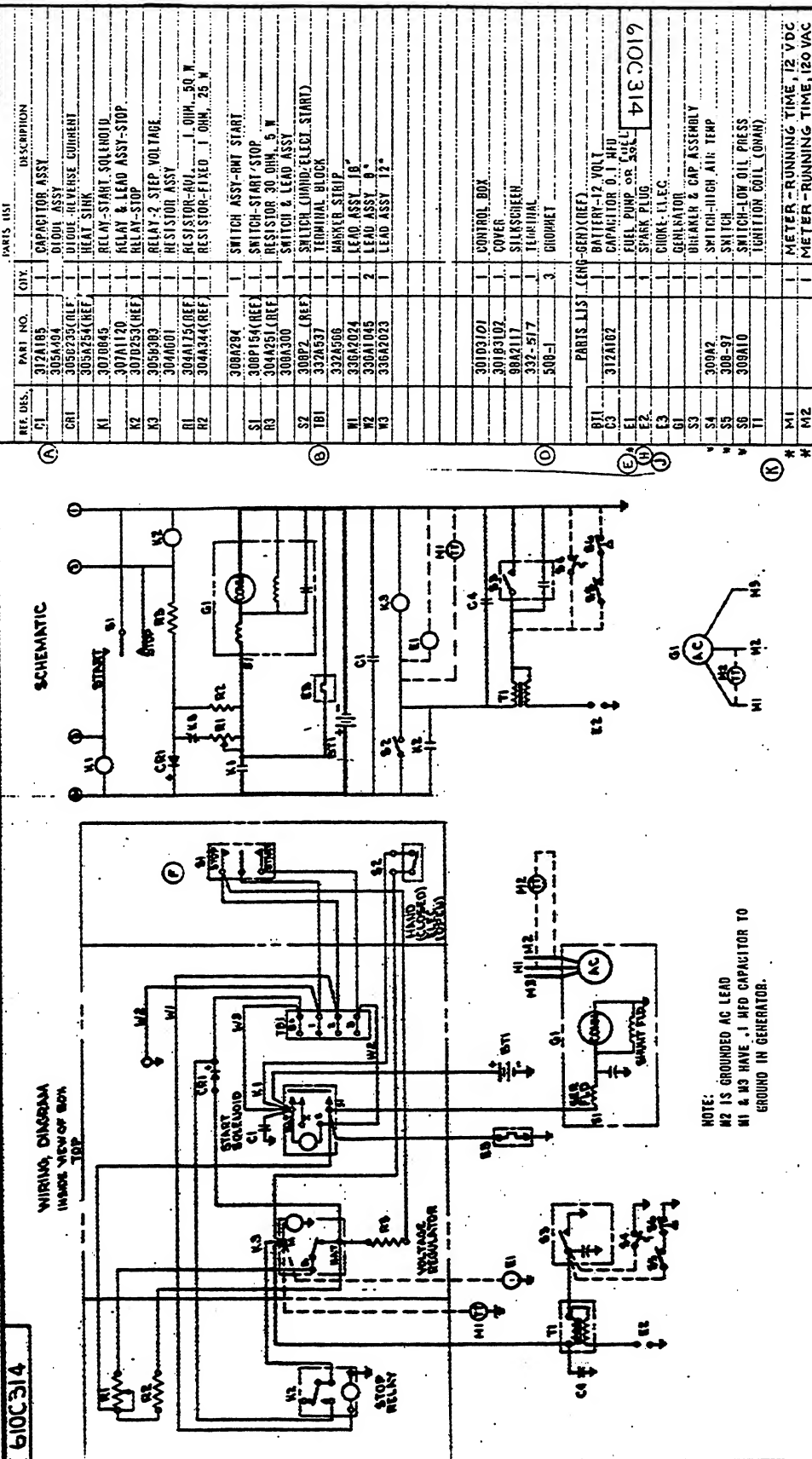
PARTS LIST

REF. DES.	PART NO.	QTY	DESCRIPTION
G1	312A185	1	CAPACITOR ASSY
C1	305A494	1	DIODE ASSY
C2	305B35(REF)	1	DIODE-REVERSE CURRENT
K1	305A254(REF)	1	HEAT SHIELD
K2	307B046	1	RELAY-START SOLENOID
K3	307B253(REF)	1	RELAY-STOP
K4	305B083	1	RELAY-2 STEP VOLTAGE
R1	304A175(REF)	1	RESISTOR ASSY
R2	304A344(REF)	1	RESISTOR-FIXED 1 OHM .50 W
S1	304A234	1	SWITCH ASSY RMT START
S2	307P54(REF)	1	SWITCH-START STOP
S3	33A1231-REF	1	RESISTOR 30 OHM .5 W
S4	308A100	1	SWITCH 8 LEAD ASSY
S5	308P2	1	SWITCH (HAND-ELECT START)
T1	332A537	1	TERMINAL BLOCK
T2	332A556	1	MARKER STRIP
T3	336A204	1	LEAD ASSY 18
T4	336A1045	2	LEAD ASSY 8
T5	336A203	1	LEAD ASSY 12
T6	336A1590	1	LEAD ASSY 22
T7	301D3101	1	CONTROL BOX
T8	301B102	1	COVER
T9	99A2117	1	SCREEN
T10	332-517	1	TERMINAL
T11	508-1	3	GROUND
T12	610C313	1	BATTERY-12 VOLT
T13	312A162(REF)	1	CAPACITOR 0.1 MFD
T14	E1	1	FUEL PUMP
T15	E2	1	SPARK PLUG
T16	E3	1	CHOKER-ELECT
T17	E4	1	GENERATOR
T18	E5	1	BREAKER & CAP ASSEMBLY
T19	E6	1	SWITCH-HIGH AIR TEMP
T20	T1	1	IGNITION COIL (OHM)
T21	K4	1	SOLENOID-FUEL (GAS)
T22	307P312(REF)	1	SOLENOID-FUEL (GASOLINE)
T23	307P231(REF)	1	METER-RUNNING TIME, 12 VDC
T24	M1	1	METER-RUNNING TIME, AC
T25	M2	1	METER-RUNNING TIME, AC

↑ WHEN USED

NOTE:  
UNLESS OTHERWISE NOTED ALL  
COMPONENTS ARE SHOWN IN THE  
DE-ENERGIZED POSITION

REF. DES.	PART NO.	QTY	DESCRIPTION
G1	312A185	1	CAPACITOR ASSY
C1	305A494	1	DIODE ASSY
C2	305B35(REF)	1	DIODE-REVERSE CURRENT
K1	305A254(REF)	1	HEAT SHIELD
K2	307B046	1	RELAY-START SOLENOID
K3	307B253(REF)	1	RELAY-STOP
K4	305B083	1	RELAY-2 STEP VOLTAGE
R1	304A175(REF)	1	RESISTOR ASSY
R2	304A344(REF)	1	RESISTOR-FIXED 1 OHM .50 W
S1	304A234	1	SWITCH ASSY RMT START
S2	307P54(REF)	1	SWITCH-START STOP
S3	33A1231-REF	1	RESISTOR 30 OHM .5 W
S4	308A100	1	SWITCH 8 LEAD ASSY
S5	308P2	1	SWITCH (HAND-ELECT START)
T1	332A537	1	TERMINAL BLOCK
T2	332A556	1	MARKER STRIP
T3	336A204	1	LEAD ASSY 18
T4	336A1045	2	LEAD ASSY 8
T5	336A203	1	LEAD ASSY 12
T6	336A1590	1	LEAD ASSY 22
T7	301D3101	1	CONTROL BOX
T8	301B102	1	COVER
T9	99A2117	1	SCREEN
T10	332-517	1	TERMINAL
T11	508-1	3	GROUND
T12	610C313	1	BATTERY-12 VOLT
T13	312A162(REF)	1	CAPACITOR 0.1 MFD
T14	E1	1	FUEL PUMP
T15	E2	1	SPARK PLUG
T16	E3	1	CHOKER-ELECT
T17	E4	1	GENERATOR
T18	E5	1	BREAKER & CAP ASSEMBLY
T19	E6	1	SWITCH-HIGH AIR TEMP
T20	T1	1	IGNITION COIL (OHM)
T21	K4	1	SOLENOID-FUEL (GAS)
T22	307P312(REF)	1	SOLENOID-FUEL (GASOLINE)
T23	307P231(REF)	1	METER-RUNNING TIME, 12 VDC
T24	M1	1	METER-RUNNING TIME, AC
T25	M2	1	METER-RUNNING TIME, AC



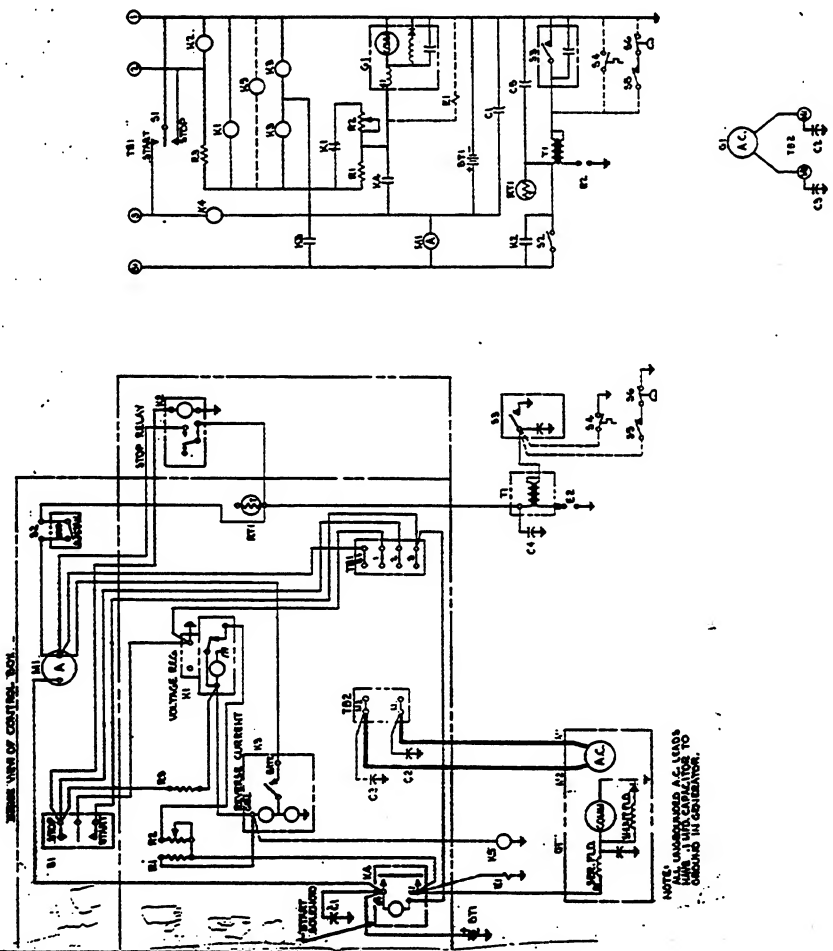
• WHEN USED

ITEM	QTY	DESCRIPTION	REMARKS
1	1	WIRING DIAGRAM	
2	1	WIRING DIAGRAM	
3	1	WIRING DIAGRAM	
4	1	WIRING DIAGRAM	
5	1	WIRING DIAGRAM	
6	1	WIRING DIAGRAM	
7	1	WIRING DIAGRAM	
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97	1	WIRING DIAGRAM	
98	1	WIRING DIAGRAM	
99	1	WIRING DIAGRAM	
100	1	WIRING DIAGRAM	

NOTE:  
UNLESS OTHERWISE NOTED, ALL  
COMPONENTS ARE SHOWN IN THE  
DE-ENERGIZED POSITION.

610C316

SCHEMATIC DIAGRAM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor, 1.0 MFD.
C2, 3	312A58	2	Capacitor, 0.1 MFD.
K1	305A1	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B180	1	Relay, Reverse Current
K4	307B1046	1	Relay, Start Solenoid
M1	302A58	1	Ammeter, Charge 10-0-10
R1	304A344	1	Resistor, 1-Ohm, 25 Watt
R2	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R3	304A251	1	Resistor, 30-Ohm, 5 Watt
RT1	304A60	1	Resistor, Hytemco 1.72-Ohm, 25 Watt
S1	308P154	1	Switch, Stop/Start
S2	308P2	1	Switch, Hand, Electric, Start
TB1	332A537	1	Terminal Block
	332A539	1	Marker Strip
TB2	332A231	1	Terminal Block
	301C1160	1	Control Box & Panel Assy.
	301B1198	1	Mounting Bracket
	301C1244	1	Cover
	301B1271	1	Endplate
BT1	312A35	1	Battery, 12-Volt
C4	312A162	1	Capacitor 0.1 MFD. (Spec J Models)
*E1		1	Electric Choke
E2		1	Spark Plug
C1		1	Generator
*K5	307P312	1	Fuel Solenoid
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)

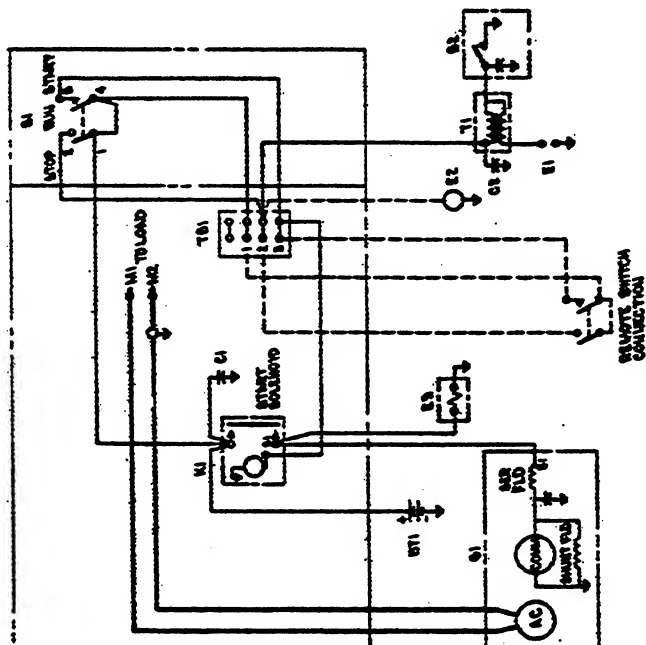
\* - When Used.

DATE	1-23-53	BY	CH
TIME	10:00 AM	REVISION	1
610C316			

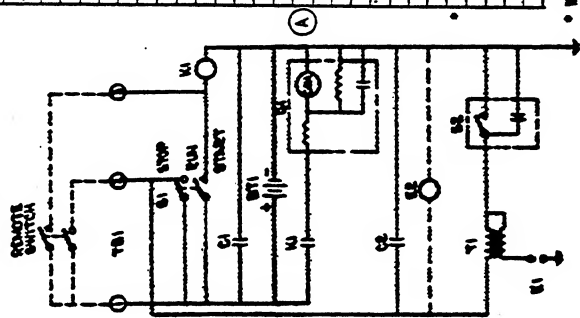
610C320

WIRING DIAGRAM

INSIDE VIEW OF BOX



SCHEMATIC



REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A57	1	CAPACITOR - 1.0 MFD
K1	307B514	1	RELAY - START SOLENOID
S1	308A140	1	SWITCH - START-RUN-STOP
T1	302A537	1	TERMINAL BLOCK
T2	332A540	1	MARKER STRIP (BLANK OUT B)
T3	332-142	1	TERMINAL
T4	301C3101	1	CONTROL BOX
T5	301B3102	1	COVER
T6	332-517	1	TERMINAL
T7	517-19	1	DOT OUTION
T8	508-1	3	GROMMET
END-GEN PARTS LIST (REF)			
T9	BATTERY 12 VOLT	1	
T10	CAPACITOR 0.1 MFD	1	
T11	SPARK PLUG	1	
T12	FUEL PUMP	1	
T13	ELEC CHOKE	1	
T14	GENERATOR	1	
T15	BREAKER & CAP. ASSY	1	
T16	IGNITION COIL	1	

• WHEN USED

NOTES:  
M2 IS GROUNDED AC LEAD  
M1 HAS .1 MFD CAPACITOR TO GROUND IN GEN

NOTE: UNLESS OTHERWISE NOTED, ALL COMPONENTS ARE SHOWN IN THE DE-ENERGIZED POSITION.

610C320

1-18-50 GEN. DES. 1-18-50

WIRING DIAGRAM

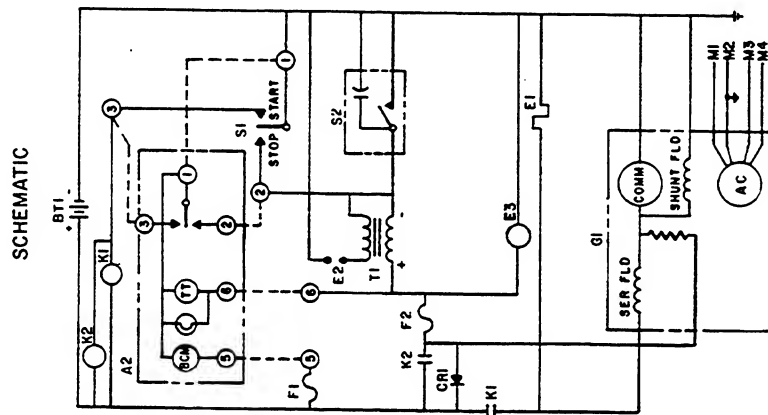
CONTROL - GEN SET

16414

100% 1PH. 60 CY

610C320





## SCHEMATIC

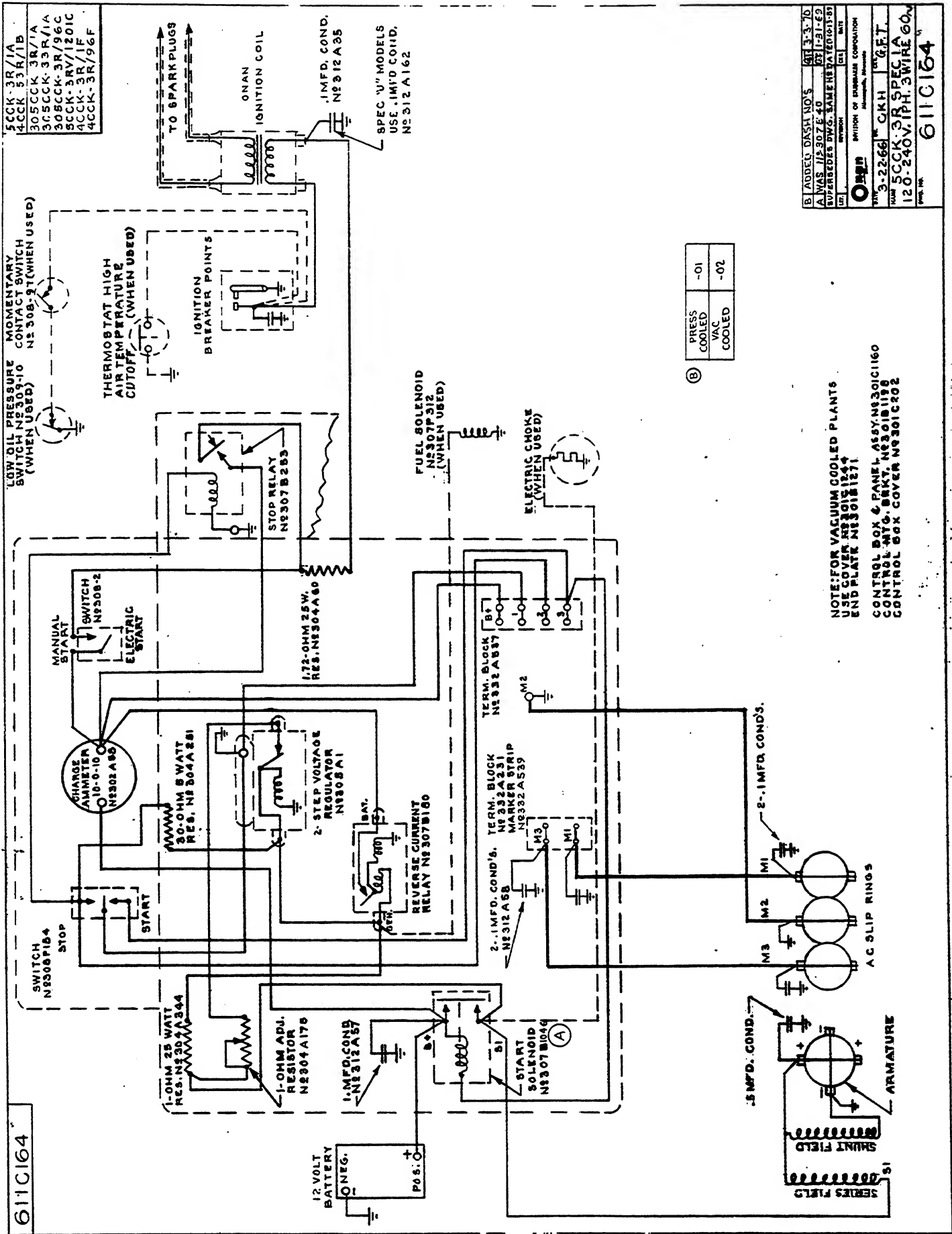
AIR MAIL	204-0643				MAY 1976
SUPPLD PWG SAME NO.					
DATED 1-7-75 W/CING					
<b>Ong</b>	Division of OHM (Engineering)				
DATE 12-23-75	PRICE \$10				
<b>CONTROL-GEN SET (WIRING DIAGRAM)</b>					
SEPA FROM					
611-11					611-11
					611-11

-OI	2.5 LK-3CR/IL	120/240V. 1PH. 4W. 60Hz
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RECONNECTION CHART	
<p>120V, 2W</p>	<p>120/240V, 3W</p>





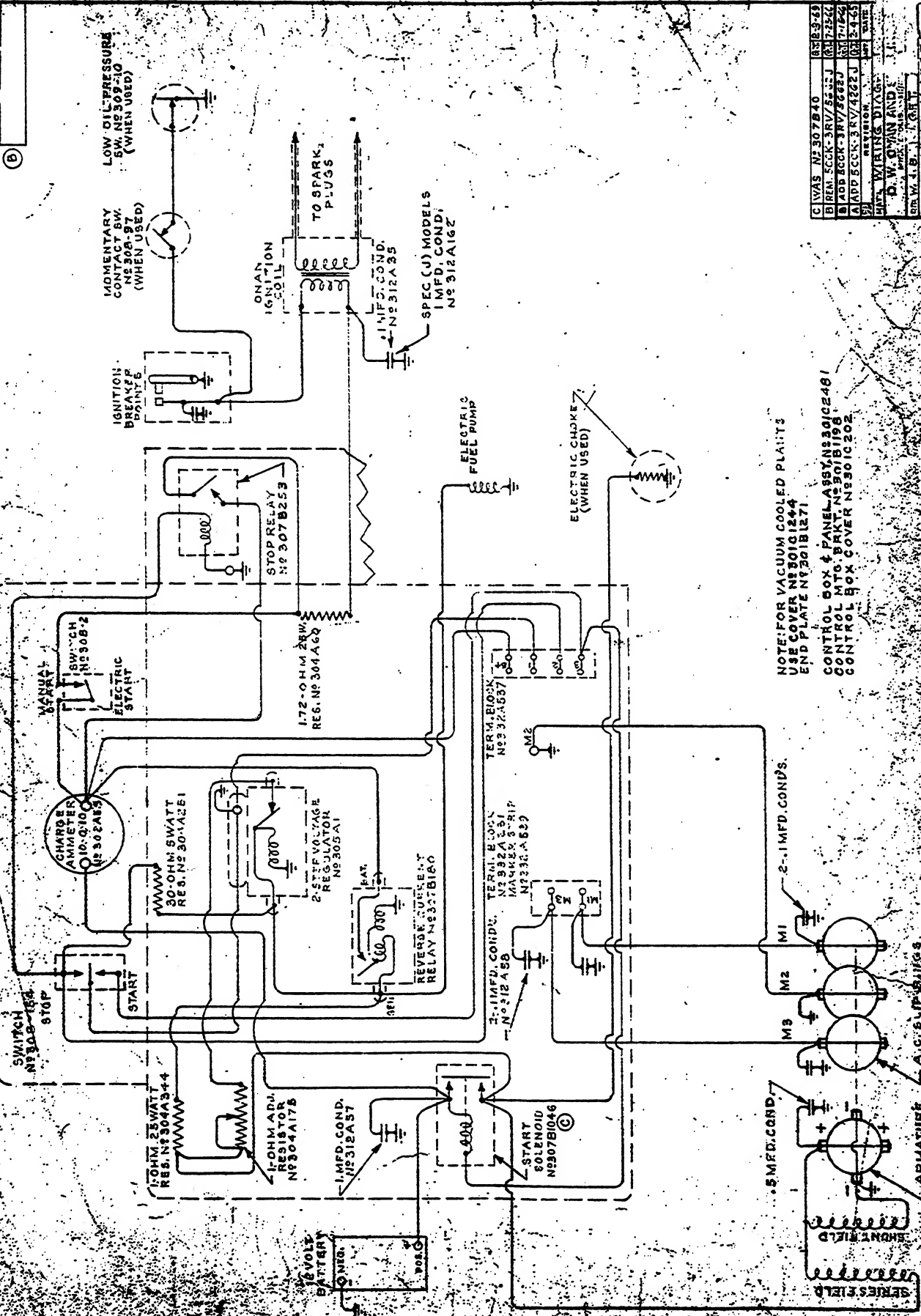


③

PRESS	-01
COOLED	-02



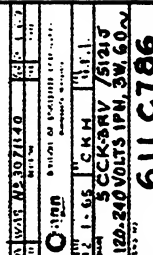


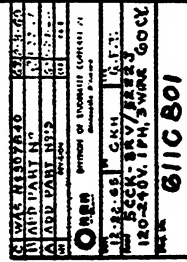


NOTE: FOR VACUUM COOLED PLAIN: 3  
USE COVER N#301C1244  
END PLATE N#301B1271  
CONTROL BOX 4 PANEL ASSY N#301C2481  
CONTROL MTC: BRKT. N#301B1198  
CONTROL BOX COVER N#301C202

[illegible]

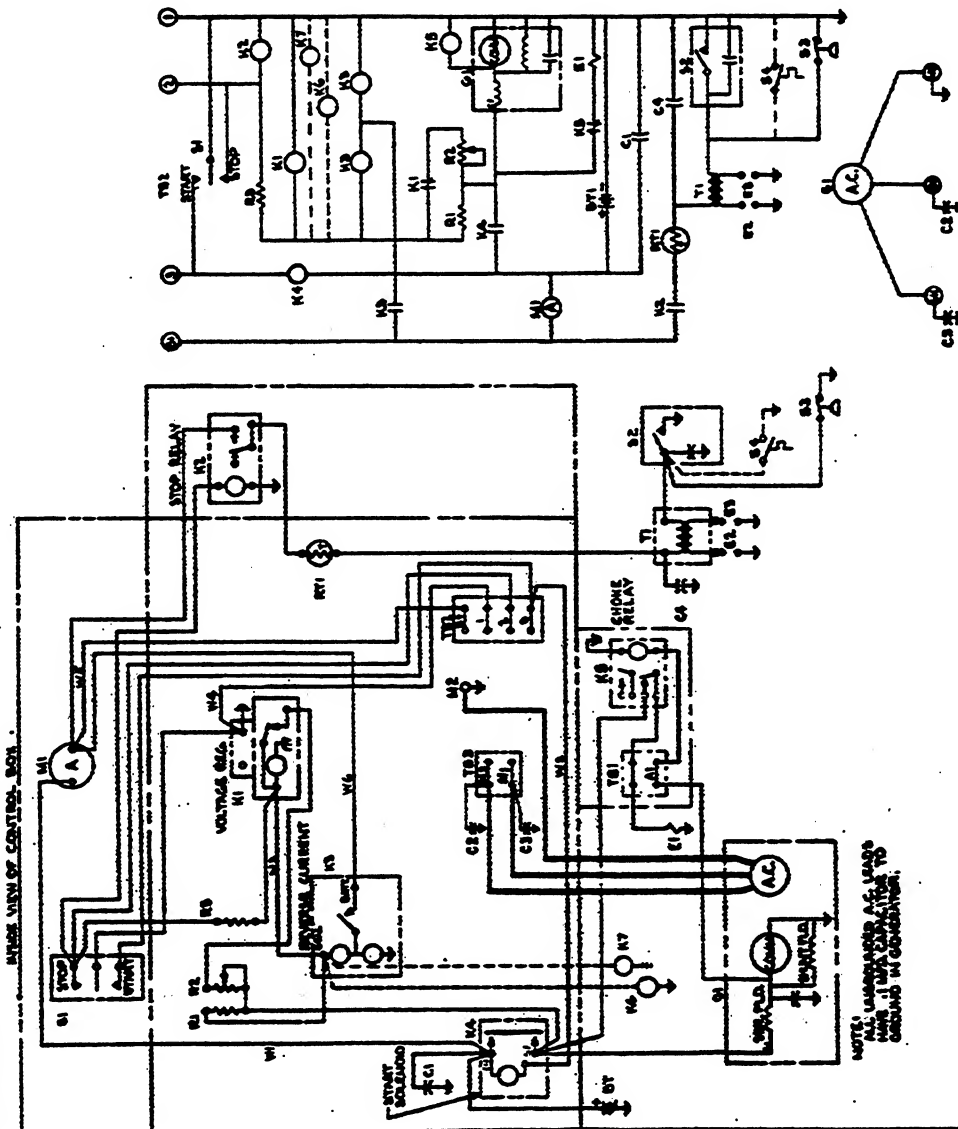
9-16-81 6110670





**WASH DC**

### SCHEMATIC DIAGRAM



**NOTE: ALL UNCLASSIFIED A.C. LEADS HAVE A DATA CAPABILITY TO OBTAIN A COPIES OF RECORDS IN CONNECTION.**

REF. DES.	PART NO.	QTY	14. PARTS
C1	312A186	1	CAPACITOR ASSY 1 0 MFD
C2,3	312A68	1	CAPACITOR ASSY 0.1 MFD
R1	306A1	1	RELAY-2 STEP VOLTAGE RELTR
R2	307A1115	1	RELAY & LEAD ASSY
R3	307B2531(REF)	1	RELAY-STOP
R4	307B180	1	RELAY-REVERSE
R5	307B1046	1	RELAY-START SOLENOID
R6	307A1138	1	RELAY & BOX ASSY
R7	307B642(REF)	1	RELAY-CHOKE
R8	332A609(REF)	1	TERMINAL BLOCK
R9	301B2772(REF)	1	RELAY & TERM BOX
R10	307A258	1	AMMETER-CHARGE 10-0-10
R11	304A683	1	RESISTORS & LEAD ASSY
R12	304A324(REF)	1	RESISTOR-1 OHM 25 W
R13	304A175(REF)	1	RESISTOR-1 OHM 50 W ADJ
R14	304A700	1	RESISTOR & LEAD ASSY
R15	304A600(REF)	1	RESISTOR-HYFEMCO 1 72 OHM 25 W
R16	306B292	1	SWITCH ASSY-RHT START
R17	308P154(REF)	1	SWITCH-STOP START
R18	304A251(REF)	1	RESISTOR-30 OHM 5 W
R19	332A537	1	TERMINAL BLOCK
R20	332A539	1	WARKER STRIP
R21	332-142	1	TERMINAL
R22	332A231	1	TERMINAL BLOCK
R23	301C2723	1	CONTROL BOX & PANEL ASSY
R24	301B1198	1	BRACKET-CONTROL BOX MTS
R25	301C1244	1	COVER
R26	301B1271	1	EMULPLATE
R27	88A1812	1	SILKSREEN
R28	517-19	1	BUTTON-DOT
R29	336A1432	1	LEAD ASSY
R30	336A1263	1	LEAD ASSY
R31	336A1430	1	LEAD ASSY
R32	336A565	1	LEAD ASSY
R33	336A1045	1	LEAD ASSY
R34	336A1431	1	LEAD ASSY
R35			
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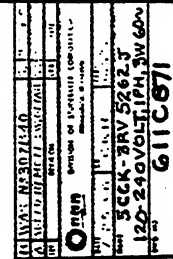
**WHEN USED**

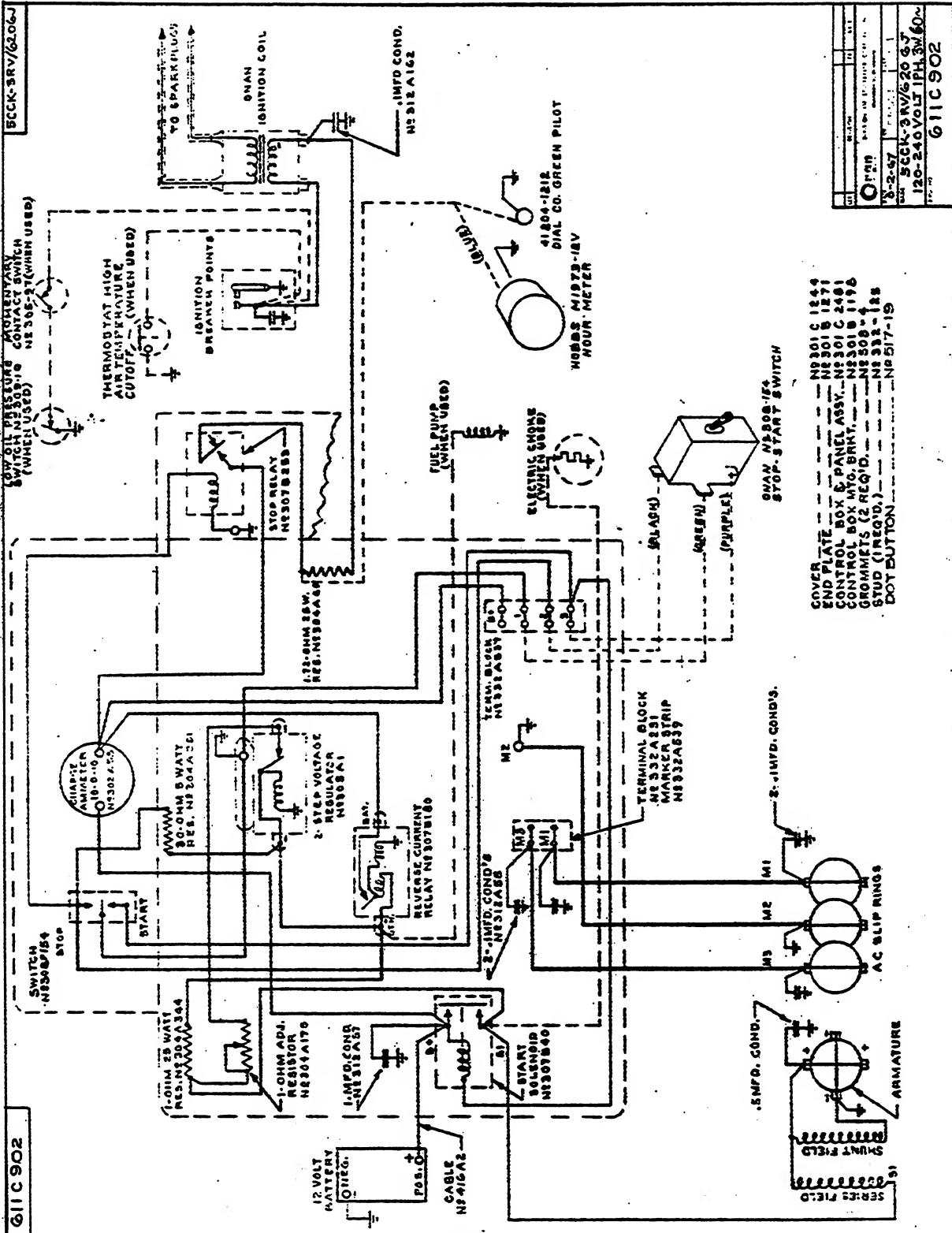
**DASH NO.**  
**-01**

[illegible]

4CCK-3RV/3260J  
4CCK-3RV6000/1J  
4CCK-3RV6000/1J  
4CCK-3RV/3260J  
120/240V, 1PH,  
3W, 50 C<sub>2</sub>







611C902

SWITCH PRESSURE CONTACT SWITCH (WHEN USED) NE 306-27 (WHEN USED)

SWITCH PRESSURE CONTACT SWITCH (WHEN USED) NE 306-27 (WHEN USED)

SWITCH PRESSURE CONTACT SWITCH (WHEN USED) NE 306-27 (WHEN USED)

SWITCH PRESSURE CONTACT SWITCH (WHEN USED) NE 306-27 (WHEN USED)

Q106	12 VOLT BATTERY	Q106	12 VOLT BATTERY
N1416A2	CABLE	N1416A2	CABLE
N2008/154	STOP-START SWITCH	N2008/154	STOP-START SWITCH
N202A364	1-0HM 25 WATT RES.	N202A364	1-0HM 25 WATT RES.
N204A351	30-0HM 5 WATT RES.	N204A351	30-0HM 5 WATT RES.
N204A179	1-0HM ADJ. RESISTOR	N204A179	1-0HM ADJ. RESISTOR
N2078B23	STOP RELAY	N2078B23	STOP RELAY
N2078B60	REVERSE CURRENT RELAY	N2078B60	REVERSE CURRENT RELAY
N2078B40	START SOLENOID	N2078B40	START SOLENOID
N2008A1	2-STEP VOLTAGE REGULATOR	N2008A1	2-STEP VOLTAGE REGULATOR
N232A251	TERMINAL BLOCK	N232A251	TERMINAL BLOCK
N232A257	MARKER STRIP	N232A257	MARKER STRIP
N2301C1244	COVER	N2301C1244	COVER
N2301C1247	END PLATE	N2301C1247	END PLATE
N2301C2561	CONTROL BOX & PANEL ASSY.	N2301C2561	CONTROL BOX & PANEL ASSY.
N2301B1196	CONTROL BOX MTO. BRKT.	N2301B1196	CONTROL BOX MTO. BRKT.
N2308-4	GROMMETS (2 REQ'D.)	N2308-4	GROMMETS (2 REQ'D.)
N2332-128	STUD (1 REQ'D.)	N2332-128	STUD (1 REQ'D.)
N2517-19	DOT BUTTON	N2517-19	DOT BUTTON

611C902

611C902

611C902

611C902





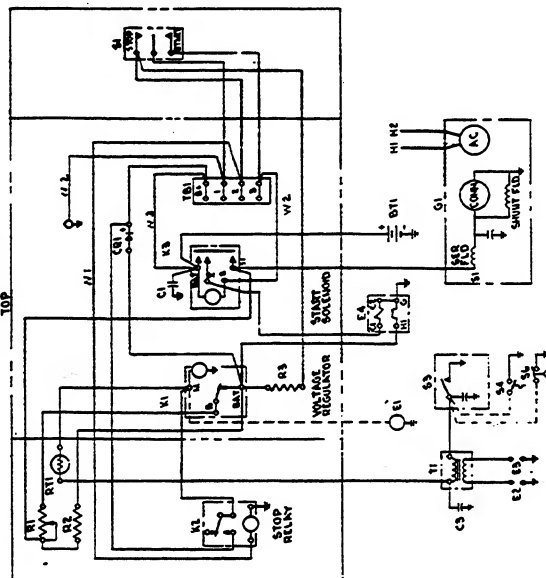






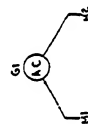
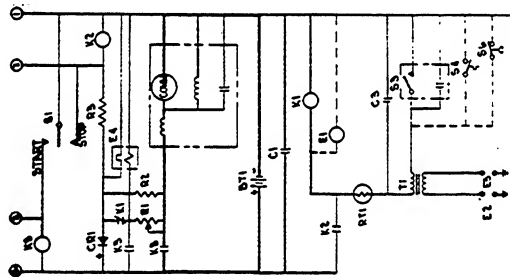
611C1002-1

WIRING DIAGRAM  
IN BACK VIEW OF BOX  
TOP



NOTE  
1. IF CHARGE IS USED  
2. IF HAS A 100 COPIES IN  
GROUP IN GROUP

SCHEMATIC



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A185	1	Capacitor Assembly
	312A57(Ref)	1	Capacitor 1.0 MFD.
CR1	305A494	1	Diode Assembly
	305B235(Ref)	1	Diode, Reverse Current
K1	305A254(Ref)	1	Heat Sink
	305B383	1	Relay, 2-Step Voltage Ref.
K2	307A1120	1	Relay & Lead Assy-Stop
K3	307B253(Ref)	1	Relay, Stop
	307B845	1	Relay, Start Solenoid
R1	304A681	1	Resistor Assembly
R2	304A175(Ref)	1	Resistor, Adj, 1-Ohm, 50Watt
	304A344(Ref)	1	Resistor, 1-Ohm, 25Watt
RT1	304A680	1	Resistor & Lead Assembly
	304A60(Ref)	1	Resistor, Hytemco 1.72-Ohm, 25 Watt
	308A294	1	Switch Assembly, RMT Start
S1	308P154(Ref)	1	Switch, Start/Stop
R3	304A251(Ref)	1	Resistor, 30-Ohm, 5 Watt
TB1	332A537	1	Terminal Block
	332A566	1	Marker Strip
W1	336A2024	1	Lead Assembly 16"
W2	336A1045	1	Lead Assembly 8"
W3	336A2023	1	Lead Assembly 12"
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	332-142	3	Terminal
	508-1	3	Grommet
	517-19	1	Dot-Button
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Thermo-Mag.
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch-High Air Temp.
*S6	309A10	1	Switch-Low Oil Pressure
T1		1	Ignition Coil (ONAN)

\* - When Used.

GENERAL	REVISION	DATE	BY
1	1	1/1/59	W. J. H. H.
2	2	2/1/59	W. J. H. H.
3	3	3/1/59	W. J. H. H.
4	4	4/1/59	W. J. H. H.
5	5	5/1/59	W. J. H. H.
6	6	6/1/59	W. J. H. H.
7	7	7/1/59	W. J. H. H.
8	8	8/1/59	W. J. H. H.
9	9	9/1/59	W. J. H. H.
10	10	10/1/59	W. J. H. H.
11	11	11/1/59	W. J. H. H.
12	12	12/1/59	W. J. H. H.
13	13	1/1/60	W. J. H. H.
14	14	2/1/60	W. J. H. H.
15	15	3/1/60	W. J. H. H.
16	16	4/1/60	W. J. H. H.
17	17	5/1/60	W. J. H. H.
18	18	6/1/60	W. J. H. H.
19	19	7/1/60	W. J. H. H.
20	20	8/1/60	W. J. H. H.
21	21	9/1/60	W. J. H. H.
22	22	10/1/60	W. J. H. H.
23	23	11/1/60	W. J. H. H.
24	24	12/1/60	W. J. H. H.
25	25	1/1/61	W. J. H. H.
26	26	2/1/61	W. J. H. H.
27	27	3/1/61	W. J. H. H.
28	28	4/1/61	W. J. H. H.
29	29	5/1/61	W. J. H. H.
30	30	6/1/61	W. J. H. H.
31	31	7/1/61	W. J. H. H.
32	32	8/1/61	W. J. H. H.
33	33	9/1/61	W. J. H. H.
34	34	10/1/61	W. J. H. H.
35	35	11/1/61	W. J. H. H.
36	36	12/1/61	W. J. H. H.
37	37	1/1/62	W. J. H. H.
38	38	2/1/62	W. J. H. H.
39	39	3/1/62	W. J. H. H.
40	40	4/1/62	W. J. H. H.
41	41	5/1/62	W. J. H. H.
42	42	6/1/62	W. J. H. H.
43	43	7/1/62	W. J. H. H.
44	44	8/1/62	W. J. H. H.
45	45	9/1/62	W. J. H. H.
46	46	10/1/62	W. J. H. H.
47	47	11/1/62	W. J. H. H.
48	48	12/1/62	W. J. H. H.
49	49	1/1/63	W. J. H. H.
50	50	2/1/63	W. J. H. H.
51	51	3/1/63	W. J. H. H.
52	52	4/1/63	W. J. H. H.
53	53	5/1/63	W. J. H. H.
54	54	6/1/63	W. J. H. H.
55	55	7/1/63	W. J. H. H.
56	56	8/1/63	W. J. H. H.
57	57	9/1/63	W. J. H. H.
58	58	10/1/63	W. J. H. H.
59	59	11/1/63	W. J. H. H.
60	60	12/1/63	W. J. H. H.
61	61	1/1/64	W. J. H. H.
62	62	2/1/64	W. J. H. H.
63	63	3/1/64	W. J. H. H.
64	64	4/1/64	W. J. H. H.
65	65	5/1/64	W. J. H. H.
66	66	6/1/64	W. J. H. H.
67	67	7/1/64	W. J. H. H.
68	68	8/1/64	W. J. H. H.
69	69	9/1/64	W. J. H. H.
70	70	10/1/64	W. J. H. H.
71	71	11/1/64	W. J. H. H.
72	72	12/1/64	W. J. H. H.
73	73	1/1/65	W. J. H. H.
74	74	2/1/65	W. J. H. H.
75	75	3/1/65	W. J. H. H.
76	76	4/1/65	W. J. H. H.
77	77	5/1/65	W. J. H. H.
78	78	6/1/65	W. J. H. H.
79	79	7/1/65	W. J. H. H.
80	80	8/1/65	W. J. H. H.
81	81	9/1/65	W. J. H. H.
82	82	10/1/65	W. J. H. H.
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85	85	1/1/66	W. J. H. H.
86	86	2/1/66	W. J. H. H.
87	87	3/1/66	W. J. H. H.
88	88	4/1/66	W. J. H. H.
89	89	5/1/66	W. J. H. H.
90	90	6/1/66	W. J. H. H.
91	91	7/1/66	W. J. H. H.
92	92	8/1/66	W. J. H. H.
93	93	9/1/66	W. J. H. H.
94	94	10/1/66	W. J. H. H.
95	95	11/1/66	W. J. H. H.
96	96	12/1/66	W. J. H. H.
97	97	1/1/67	W. J. H. H.
98	98	2/1/67	W. J. H. H.
99	99	3/1/67	W. J. H. H.
100	100	4/1/67	W. J. H. H.

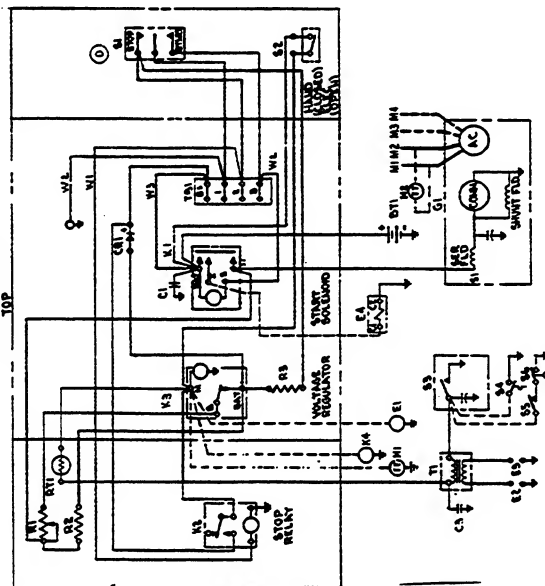
NOTE  
1. IF CHARGE IS USED  
2. IF HAS A 100 COPIES IN  
GROUP IN GROUP

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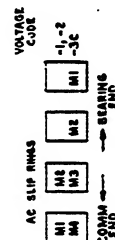


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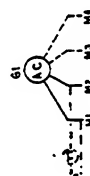
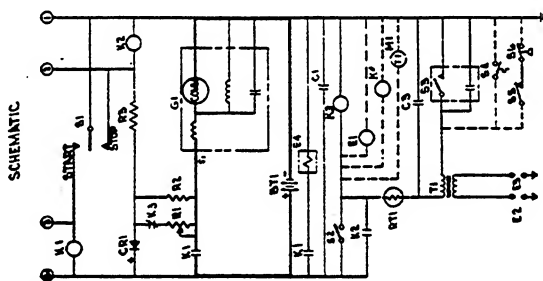
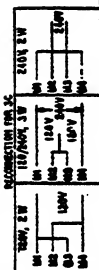
WIRING DIAGRAM  
INSIDE VIEW OF BOX



NOTE:  
BT IS CARRIED AC LINE  
OTHERS ARE NOT. BUT CONNECTION IN  
BOXES IS SHOWN.



PLACE THIS DIAGRAM ON INSIDE OF COVER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A185	1	Capacitor Assembly
	305A494	1	Diode Assembly
CR1	305B235(Ref)	1	Diode, Reverse Current
	305A254(Ref)	1	Heat Sink
K1	307B845	1	Relay, Start Solenoid
K2	307A1120	1	Relay & Lead Assy. Stop
K3	307B253(Ref)	1	Relay, Stop
	305B383	1	Relay, 2-Step Voltage
	304A681	1	Resistor Assembly
R1	304A175(Ref)	1	Resistor, Adj. 1-Ohm, 50Watt
R2	304A344(Ref)	1	Resistor, Fixed 1-Ohm, 25Watt
	304A680	1	Resistor & Lead Assembly
RT1	304A60(Ref)	1	Resistor, 1-72-Ohm, 25Watt
	308A294	1	Switch Assy., RMT Start
S1	308P154(Ref)	1	Switch, Start/Stop
R3	304A251(Ref)	1	Resistor, 30-Ohm, 5Watt
	308A300	1	Switch & Lead Assembly
S2	308P2(Ref)	1	Switch (Hand/Elect. Start)
TB1	332A537	1	Terminal Block
	332A566	1	Marker Strip
W1	336A2024	1	Lead Assy. 16"
W2	336A1045	2	Lead Assy. 8"
W3	336A2023	1	Lead Assy. 12"
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
E1		1	Fuel Pump
E2,3		2	Spark Plug
*E4		1	Choke, Sisson
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)
*K4		1	Solenoid, Gas
*M1		1	Meter, Running Time, 12VDC
*M2		1	Meter, Running Time, 120VDC

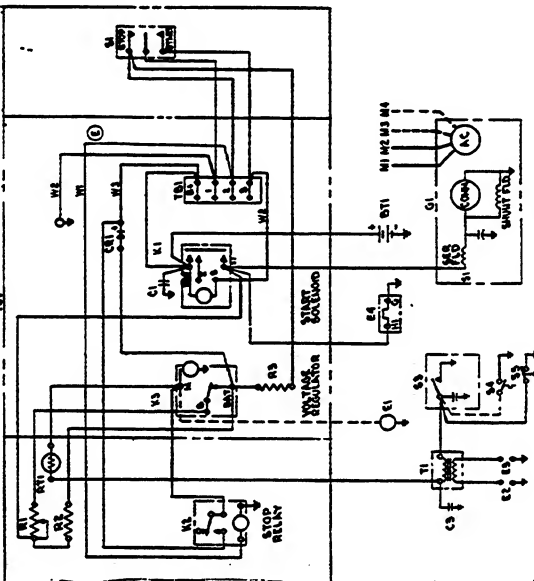
\* - When Used.

ITEM	QTY.	UNIT	REMARKS
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3	1	PCB	PCB 1035
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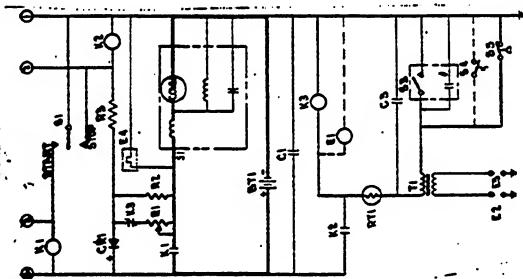
NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

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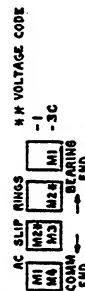
WIRING DIAGRAM  
INSIDE VIEW OF BOX



SCHEMATIC



NOTE:  
W R 11 GROUND AC LUD  
OTHERS HAVE A BUS CONNECTING TO  
GROUND IN LOCATION.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A185	1	Capacitor Assembly
CR1	309A494	1	Diode Assembly
K1	305B235(Ref)	1	Diode - Reverse Current
K2	307B845	1	Heat Sink
K3	307A1120	1	Relay - Start Solenoid
R1	307B253(Ref)	1	Relay & Lead Assy. - Stop
R2	305B383	1	Relay, Stop
RT1	304A681	1	Relay, 2-Step Voltage
SI	304A175(Ref)	1	Resistor Assembly
R3	304A344(Ref)	1	Resistor Adj., 1-Ohm, 50Watt
TB1	304A680	1	Resistor, Fixed, 1-Ohm, 25Watt
W1	304A60(Ref)	1	Resistor & Lead Assembly
W2	308A294	1	Resistor, 1.72-Ohm, 25Watt
W3	309P154(Ref)	1	Switch Assy., RMT Start
	304A251(Ref)	1	Switch, Start/Stop
	332A537	1	Resistor, 30-Ohm, 5Watt
	332A566	1	Terminal Block
	336A2024	1	Marker Strip
	336A1045	1	Lead Assembly 16"
	336A2023	1	Lead Assembly 8"
	301B3227	1	Lead Assembly 12"
	301D3228	1	Bracket, Control Box Mtg.
	301B3102	1	Control Box
	517-19	1	Cover
	508-1	3	Dot-Button
			Grommet

BT1	312A162	1	Battery, 12 Volt
C3		1	Capacitor, 0.1MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Electric
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
S5	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)

\* - When Used.

611C1036

DATE: 10-1-61

BY: J. H. HARRIS

FOR: J. H. HARRIS

APPROVED: J. H. HARRIS

REVISIONS:

1. 10-1-61

2. 10-1-61

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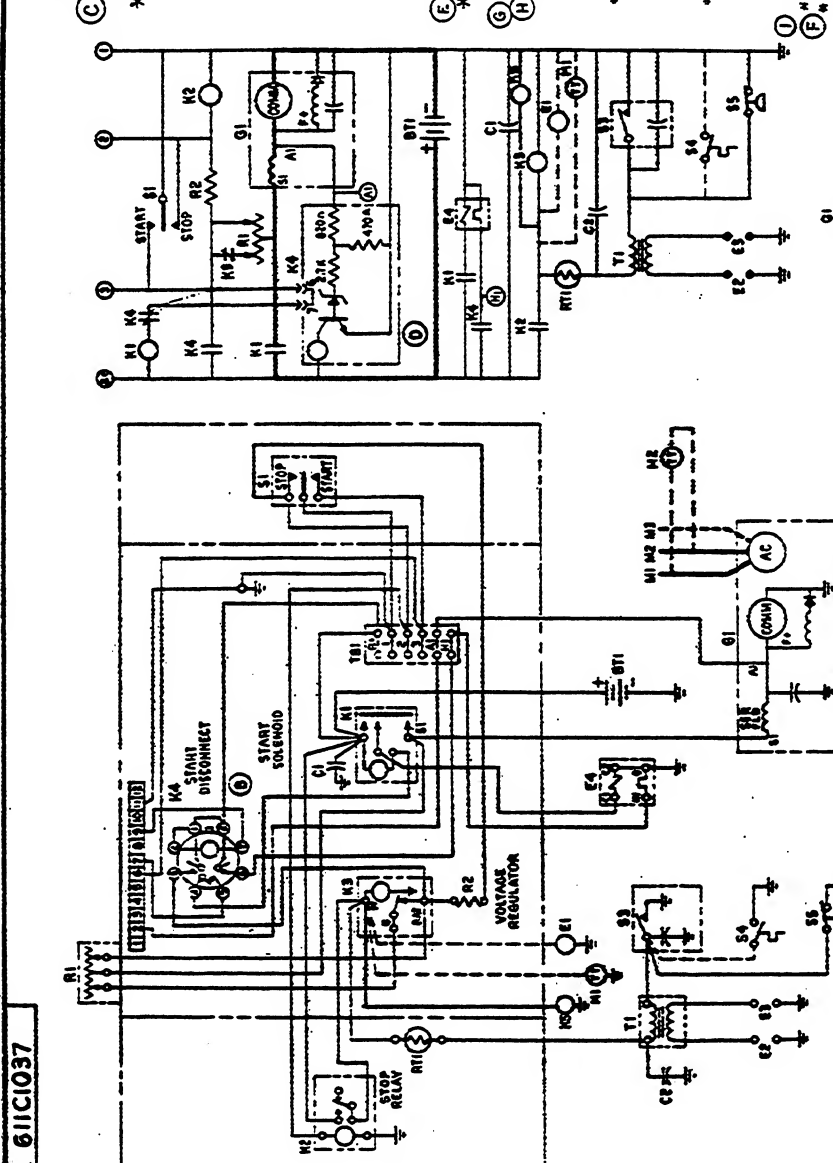
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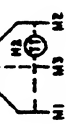
611C1037

PART DIS.	PART NO.	QTY.	DESCRIPTION
C1	312A1R5	1	CAPACITOR ASSY
K1	3070R45	1	RELAY-START SOLENOID
K2	3070R45	1	RELAY-STOP
K3	3050R33	1	RELAY-VOLTAGE DUTY (2 STEP)
K4	308R22	1	RELAY-ASSY-START DISC
R1	304A09	1	RESISTOR-TAPPED (LOW-ON CHG)
RT1	304A09	1	RESISTOR-LEAD ASSY
RT1	304A09	1	RESISTOR-FIXED 25 W. 1.7Ω
S1	308A204	1	SWITCH-ASSY-START
S1	308A204	1	SWITCH-TOGGLE (START-STOP)
R2	304A204	1	RESISTOR-FIXED 30 OHM, 5 W
TB1	332A099	1	TERMINAL BLOCK
	332A128	1	MARKER STRIP
	30103235	1	RESISTOR MTG BOX
	30103227	1	ORACNET-CONT BOX MTG
	30103233	1	CONTROL BOX
	30103102	1	COVER
	80A2117	1	SILKSCREEN
	508-1	4	GROUND
	3070R45 (REF)	1	RELAY-START DISCONNECT
	3000734 (REF)	1	AMPLIFIER-START DISC
	3238002 (REF)	1	SOCKET ASSY-START DISC
	300A330G (REF)	1	SPRING
			(PNC-GIN) (REF)
			BATTERY-12VOLT
			CAPACITOR 0.1 MFD
			FUEL PUMP
			SPARK PLUG
			CHOK-THERM-HAG
			GENERATOR
			BUCKET & CAP ASSEMBLY
			SWITCH-HIGH AIR TEMP
			SWITCH-LOW OIL PRESS
			IGNITION COIL
			(ONAW)
			VALVE-POSITIVE FUEL SOL SHUT OFF
			METER-RUNNING TIME, 12 VDC
			METER-RUNNING TIME, 120 VAC

• WHEN USED



NOTE:  
M2 IS GROUND AC LEAD  
M1 & M3 HAVE .1 MFD CAPACITOR TO  
GROUND IN GENERATOR



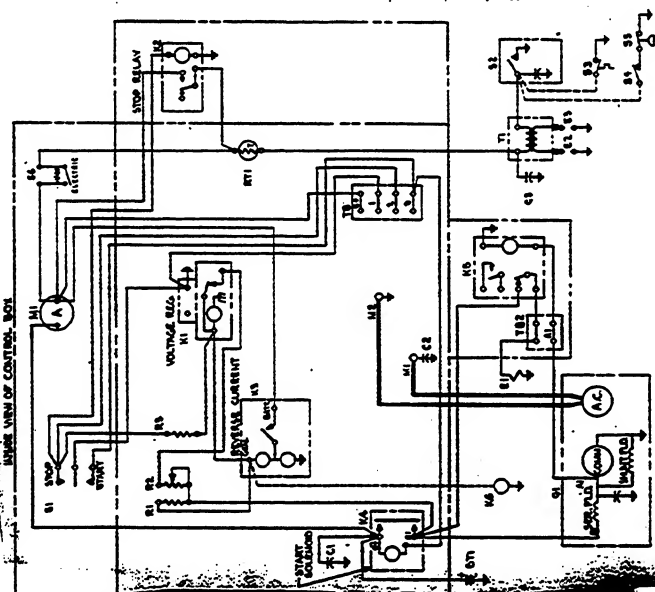
ITEM NO.	DESCRIPTION	QTY.
1	START SOLENOID	1
2	STOP RELAY	1
3	VOLTAGE DUTY (2 STEP)	1
4	RELAY-ASSY-START DISC	1
5	RESISTOR-TAPPED (LOW-ON CHG)	1
6	RESISTOR-LEAD ASSY	1
7	RESISTOR-FIXED 25 W. 1.7Ω	1
8	SWITCH-ASSY-START	1
9	SWITCH-TOGGLE (START-STOP)	1
10	RESISTOR-FIXED 30 OHM, 5 W	1
11	TERMINAL BLOCK	1
12	MARKER STRIP	1
13	RESISTOR MTG BOX	1
14	ORACNET-CONT BOX MTG	1
15	CONTROL BOX	1
16	COVER	1
17	SILKSCREEN	1
18	GROUND	4
19	RELAY-START DISCONNECT	1
20	AMPLIFIER-START DISC	1
21	SOCKET ASSY-START DISC	1
22	SPRING	1
23	(PNC-GIN) (REF)	1
24	BATTERY-12VOLT	1
25	CAPACITOR 0.1 MFD	1
26	FUEL PUMP	1
27	SPARK PLUG	1
28	CHOK-THERM-HAG	1
29	GENERATOR	1
30	BUCKET & CAP ASSEMBLY	1
31	SWITCH-HIGH AIR TEMP	1
32	SWITCH-LOW OIL PRESS	1
33	IGNITION COIL	1
34	(ONAW)	1
35	VALVE-POSITIVE FUEL SOL SHUT OFF	1
36	METER-RUNNING TIME, 12 VDC	1
37	METER-RUNNING TIME, 120 VAC	1

NOTE:  
UNLESS OTHERWISE NOTED,  
COMPONENTS ARE SHOWN IN  
DE-ENERGIZED POSITION

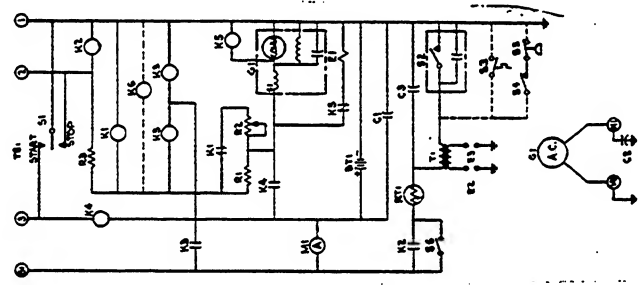
611C1037

611C1039  
REV. 1-1-57

WIRING DIAGRAM  
ENGINE UNIT OF CONTROL BOX



SCHEMATIC DIAGRAM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
C2	312A58	1	Capacitor 0.1 MFD.
K1	305A1	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B180	1	Relay, Reverse Current
K4	307B1046	1	Relay, Start Solenoid
K5	307B642	1	Relay, Choke
M1	302A58	1	Ammeter, Choke 10-0-10
R1	304A344	1	Resistor, 1-Ohm, 25Watt
R2	304A175	1	Resistor, 1-Ohm, 50Watt, Adj.
R3	304A251	1	Resistor, 30-Ohm, 5Watt
RT1	304A60	1	Resistor, Hitemco, 1.72-Ohm, 25 Watt
SI	308P154	1	Switch, Start/Stop
S6	308P2	1	Switch, Hand/Elect. Start
TBI	332A537	1	Terminal Block
	332A540	1	Marker Strip
TB2	332-142	2	Terminal
	332A609	1	Terminal Block
	301B2722	1	Relay & Terminal Block Box
	301C2723	1	Control Box & Panel Assy.
	301B1198	1	Mounting Bracket
	301C1244	1	Cover
	301B1271	1	Endplate
BT1		1	Battery, 12-Volt
C3	312A35(Ref)	1	Capacitor 0.1 MFD.
	312A162(Ref)	1	Capacitor 0.1 MFD. (Spec J Models)
*E1		1	Choke, Slisson Electric
E2, 3		2	Spark Plugs
G1		1	Generator
*K6		1	Fuel Solenoid
S2	307P312(Ref)	1	Breaker & Cap Assembly
*S3	309A2(Ref)	1	Switch, High Air Temp.
*S4	308-97(Ref)	1	Switch
*S5	309A10(Ref)	1	Switch, Low Oil Pressure
T1		1	Ignition Coil - (ONAN)

\* - When Used.

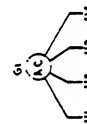
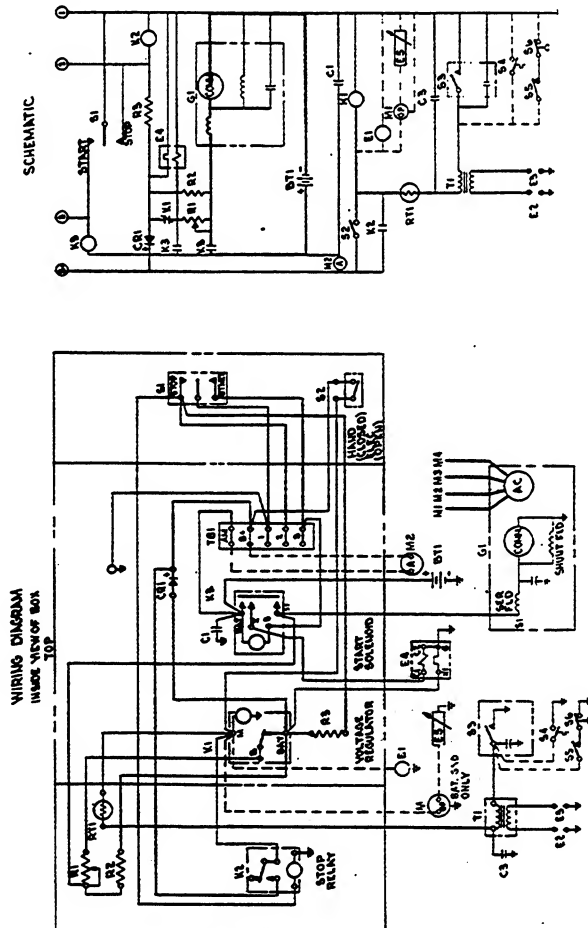
611C1039

REV. 1-1-57

WIRING DIAGRAM

ENGINE UNIT OF CONTROL BOX

611C1039



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
CR1	305B235	1	Diode, Reverse Current
	305A254	1	Heat Sink
K1	305B383	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B845	1	Relay, Start Solenoid
R1	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R2	304A344	1	Resistor, 1-Ohm, 25 Watt
R3	304A251	1	Resistor, 30-Ohm, 5 Watt
RT1	304A60	1	Resistor, Hytemco, 1.72-Ohm, 25 Watt
S1	308P154	1	Switch, Start/Stop
S2	308P2	1	Switch, Hand/Elect. Start
⊙ TB1	332A604	1	Block, Terminal
	332A613	1	Strip, Marker
⊙	301B3227	1	Bracket, Control Box Mtg.
	301D3294	1	Control Box
	301B3102	1	Cover
	332-142	1	Terminal
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Thermo Mag.
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6,	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)
E5	193A108	1	Sender - Oil Pressure
⊙ M1	193A107(Ref)	1	Gauge, Oil Pressure
M2	302A58(Ref)	1	Ammeter

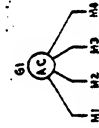
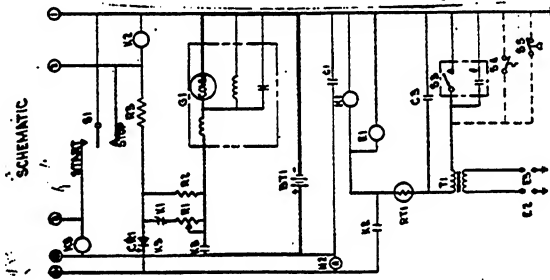
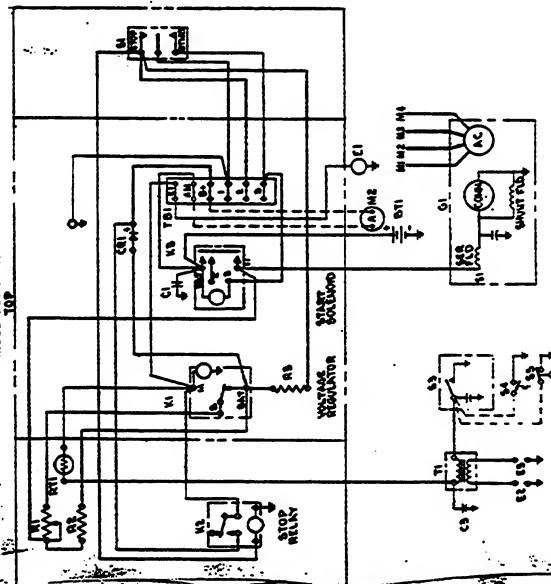
**\* - When Used.**

[illegible]



61C1050

WIRING DIAGRAM  
INSIDE VIEW OF BOX



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor, 1.0 MFD.
CR1	305B235	1	Diode, Reversible Current
K1	305A254	1	Heat Sink
K2	305B383	1	Relay, 2-Step Voltage Reg.
K3	307B253	1	Relay, Stop
R1	307B845	1	Relay, Start Solenoid
R2	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R3	304A344	1	Resistor, 1-Ohm, 25 Watt
RT1	304A251	1	Resistor, 30-Ohm, 5 Watt
	304A60	1	Resistor, Hitemco, 1.72-Ohm, 25 Watt
SI	308P154	1	Switch, Start/Stop
BT1	332A699	1	Block, Terminal
	332A730	1	Strip, Marker
	301B3227	1	Bracket, Control Box Mfg.
	301D3294	1	Control Box
	301B3102	1	Cover
	332-142	1	Terminal
	508-1	3	Grommet
	517-19	1	Dot-Button
BT1	312A162	1	Battery, 12-Volt
C3		1	Capacitor, 0.1 MFD.
E1		1	Valve, Gas Solenoid
E2, 3		2	Spark Plug
G1		1	Generator
S3		1	Breaker & Cap Assembly
S4	309A2	1	Switch, High Air Temp.
S5	309A10	1	Switch, Low Oil Press.
T1		1	Ignition Coil (ONAN)
M2		1	Ammeter (Furnished by Customer)

\* - When Used.

61C1050

REVISIONS

REV.	DATE	DESCRIPTION
1	1-15-70	ORIGINAL
2	1-15-70	REVISED
3	1-15-70	REVISED
4	1-15-70	REVISED
5	1-15-70	REVISED
6	1-15-70	REVISED
7	1-15-70	REVISED
8	1-15-70	REVISED
9	1-15-70	REVISED
10	1-15-70	REVISED

61C1050

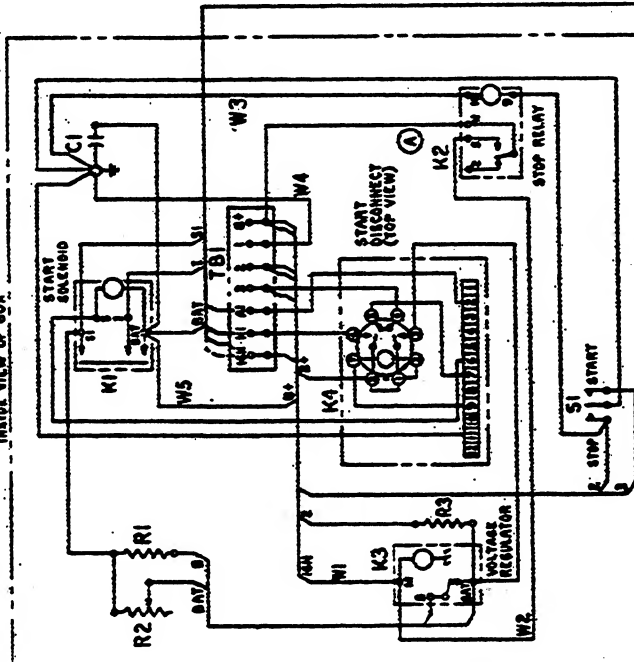
RECONNECTION CHART

WIRE SIZES SHOWN ON INSIDE OF COVER

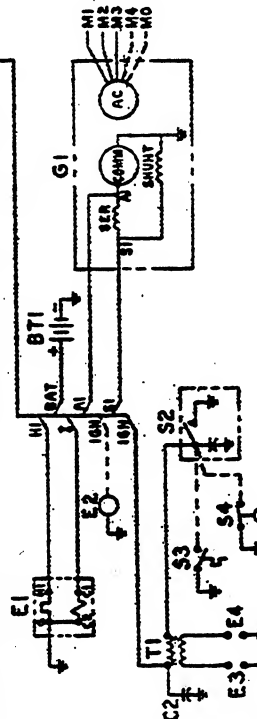
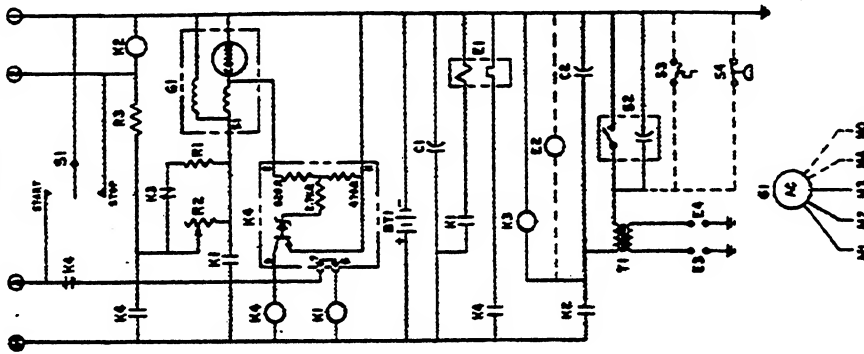
WIRE NO.	WIRE SIZE	TERMINAL
1	12/2 AWG, 3W	M1
2	12/2 AWG, 3W	M2
3	12/2 AWG, 3W	M3
4	12/2 AWG, 3W	M4
5	12/2 AWG, 3W	M5
6	12/2 AWG, 3W	M6
7	12/2 AWG, 3W	M7
8	12/2 AWG, 3W	M8
9	12/2 AWG, 3W	M9
10	12/2 AWG, 3W	M10
11	12/2 AWG, 3W	M11
12	12/2 AWG, 3W	M12
13	12/2 AWG, 3W	M13
14	12/2 AWG, 3W	M14
15	12/2 AWG, 3W	M15
16	12/2 AWG, 3W	M16
17	12/2 AWG, 3W	M17
18	12/2 AWG, 3W	M18
19	12/2 AWG, 3W	M19
20	12/2 AWG, 3W	M20
21	12/2 AWG, 3W	M21
22	12/2 AWG, 3W	M22
23	12/2 AWG, 3W	M23
24	12/2 AWG, 3W	M24
25	12/2 AWG, 3W	M25
26	12/2 AWG, 3W	M26
27	12/2 AWG, 3W	M27
28	12/2 AWG, 3W	M28
29	12/2 AWG, 3W	M29
30	12/2 AWG, 3W	M30
31	12/2 AWG, 3W	M31
32	12/2 AWG, 3W	M32
33	12/2 AWG, 3W	M33
34	12/2 AWG, 3W	M34
35	12/2 AWG, 3W	M35
36	12/2 AWG, 3W	M36
37	12/2 AWG, 3W	M37
38	12/2 AWG, 3W	M38
39	12/2 AWG, 3W	M39
40	12/2 AWG, 3W	M40
41	12/2 AWG, 3W	M41
42	12/2 AWG, 3W	M42
43	12/2 AWG, 3W	M43
44	12/2 AWG, 3W	M44
45	12/2 AWG, 3W	M45
46	12/2 AWG, 3W	M46
47	12/2 AWG, 3W	M47
48	12/2 AWG, 3W	M48
49	12/2 AWG, 3W	M49
50	12/2 AWG, 3W	M50
51	12/2 AWG, 3W	M51
52	12/2 AWG, 3W	M52
53	12/2 AWG, 3W	M53
54	12/2 AWG, 3W	M54
55	12/2 AWG, 3W	M55
56	12/2 AWG, 3W	M56
57	12/2 AWG, 3W	M57
58	12/2 AWG, 3W	M58
59	12/2 AWG, 3W	M59
60	12/2 AWG, 3W	M60
61	12/2 AWG, 3W	M61
62	12/2 AWG, 3W	M62
63	12/2 AWG, 3W	M63
64	12/2 AWG, 3W	M64
65	12/2 AWG, 3W	M65
66	12/2 AWG, 3W	M66
67	12/2 AWG, 3W	M67
68	12/2 AWG, 3W	M68
69	12/2 AWG, 3W	M69
70	12/2 AWG, 3W	M70
71	12/2 AWG, 3W	M71
72	12/2 AWG, 3W	M72
73	12/2 AWG, 3W	M73
74	12/2 AWG, 3W	M74
75	12/2 AWG, 3W	M75
76	12/2 AWG, 3W	M76
77	12/2 AWG, 3W	M77
78	12/2 AWG, 3W	M78
79	12/2 AWG, 3W	M79
80	12/2 AWG, 3W	M80
81	12/2 AWG, 3W	M81
82	12/2 AWG, 3W	M82
83	12/2 AWG, 3W	M83
84	12/2 AWG, 3W	M84
85	12/2 AWG, 3W	M85
86	12/2 AWG, 3W	M86
87	12/2 AWG, 3W	M87
88	12/2 AWG, 3W	M88
89	12/2 AWG, 3W	M89
90	12/2 AWG, 3W	M90
91	12/2 AWG, 3W	M91
92	12/2 AWG, 3W	M92
93	12/2 AWG, 3W	M93
94	12/2 AWG, 3W	M94
95	12/2 AWG, 3W	M95
96	12/2 AWG, 3W	M96
97	12/2 AWG, 3W	M97
98	12/2 AWG, 3W	M98
99	12/2 AWG, 3W	M99
100	12/2 AWG, 3W	M100

611C1052

WIRING DIAGRAM  
INSIDE VIEW OF BOX

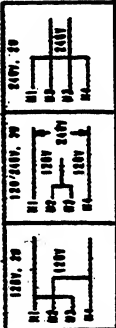


SCHEMATIC



12 VOLT BATTERIES  
BT1 3C 110/240V, 17A  
BT2 4C 110/240V, 17A  
BT3 4C 110/240V, 17A  
BT4 4C 110/240V, 17A

PLACE FUSELESS ON INSIDE OF COVER  
RECOMMENDING FUSE 20



REF. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A185	1	CAPACITOR ASSY, 1.0 MFD
K1	3070R45	1	RELAY-START SOLINOID
K2	30781052	1	RELAY-STOP
K3	3058483	1	RELAY-2 STEP VOLTAGE (REGULATION)
K4	3060232	1	RELAY ASSY-START DISC
	30701070 (REF)	1	RELAY-START DISCONNECT
	300A734 (REF)	1	AMPLIFIER-START DISCONNECT
	304A688	1	RESISTOR & LEAD ASSY
R1	353A6 (REF)	1	RESISTOR, 60, 50 W
	304A689	1	RESISTOR & LEAD ASSY
R2	3041H32 (REF)	1	RESISTOR, 60, 100 W ADJ
	304A685	1	RESISTOR & LEAD ASSY
R3	304A251 (REF)	1	RESISTOR, 300, 5 W
	308K206	1	SWITCH ASSY
S1	308T154 (REF)	1	SWITCH-START, STOP
TB1	332A745	1	TERMINAL BLOCK
	332A1321	1	HAIRPIN STRIP
	330A2032	1	LEAD ASSY
W1	330A2030	1	LEAD ASSY
W2	330A2031	1	LEAD ASSY
W3	330A2031	1	LEAD ASSY
W4	330A1431	1	LEAD ASSY
W5	330A2032	1	LEAD ASSY
	301D3351	1	CONTROL BOX
	301B3149	1	COVER-CONTROL BOX
	331-88	2	GROUND
	50A-4	1	GROUND
	90A1070	1	SILKSCREEN-RECONNECTION
	99A2768	1	SILKSCREEN-START, STOP
PARTS LIST ENG GEN (REF)			
BT1	1	BATTERY, 12V	25012119
C2	1	CAPACITOR 0.1 MFD	
E1	1	CHOKE-THERMO MAG	
E2	1	PUMP-FUEL	
E3, 4	2	SPARK PLUG	
G1	1	GENERATOR	
S2	1	BREAKER & CAP ASSY	
S3	1	SWITCH-HIGH AIR TEMP	
S4	1	SWITCH-LOW OIL PRESS	
T1	1	COIL-IGNITION	
	332B805 (REF)	1	SOCKET ASSY-START DISC
	301A3306 (REF)	1	SPRING

\*WHEN USED

1	ITEM 300A2030 (REF) 2	25012119
2	ITEM 300A2030 (REF) 2	25012119
3	ITEM 300A2030 (REF) 2	25012119
4	ITEM 300A2030 (REF) 2	25012119
5	ITEM 300A2030 (REF) 2	25012119
6	ITEM 300A2030 (REF) 2	25012119
7	ITEM 300A2030 (REF) 2	25012119
8	ITEM 300A2030 (REF) 2	25012119
9	ITEM 300A2030 (REF) 2	25012119
10	ITEM 300A2030 (REF) 2	25012119

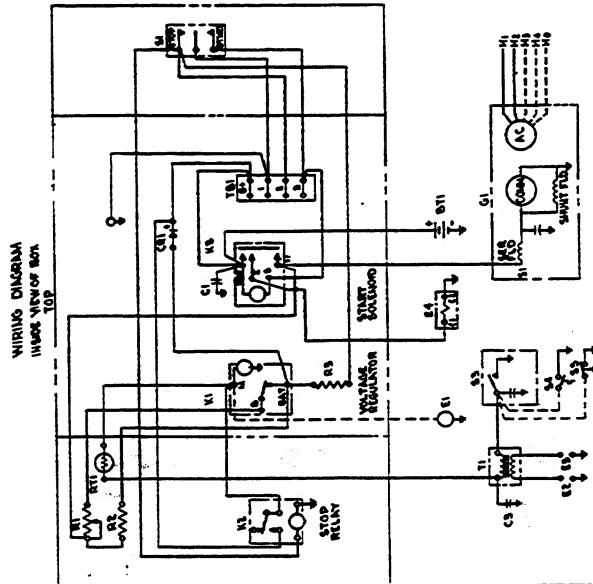
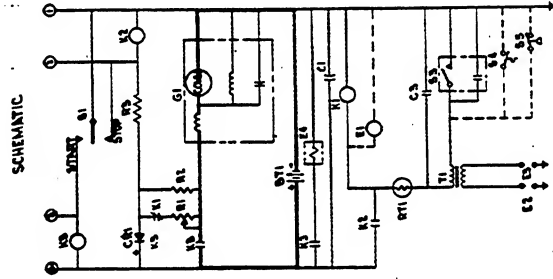
01	NH-4 * R/4000A	0-20-20	CDR	7/794	W/R
CONTROL - GEN SET (WIRING DIAGRAM)					
12 V REMOTE					
611C1052					



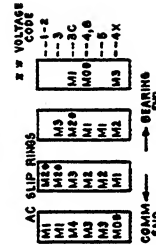
611C1054

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
C1	312A57	1	Capacitor 1.0 MFD.
CR1	305B235	1	Diode, Reverse Current
	305A254	1	Heat Sink
K1	305B383	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B845	1	Relay, Start Solenoid
R1	304A175	1	Resistor, 1-Ohm, 50 Watt, Adj.
R2	304A344	1	Resistor, 1-Ohm, 25 Watt
R3	304A251	1	Resistor, 30-Ohm, 5 Watt
RT1	304A60	1	Resistor, Hytemco, 1.72-Ohm, 25 Watt
SI	308P154	1	Switch, Start/Stop
TBI	332A537	1	Block, Terminal
	332A566	1	Strip, Marker
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
	517-19	1	Dot - Button
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Electric
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)

\* - When Used.



NOTE: GROMMETS AS SHOWN ON THIS DRAWING ARE TO BE USED IN SCREENING.



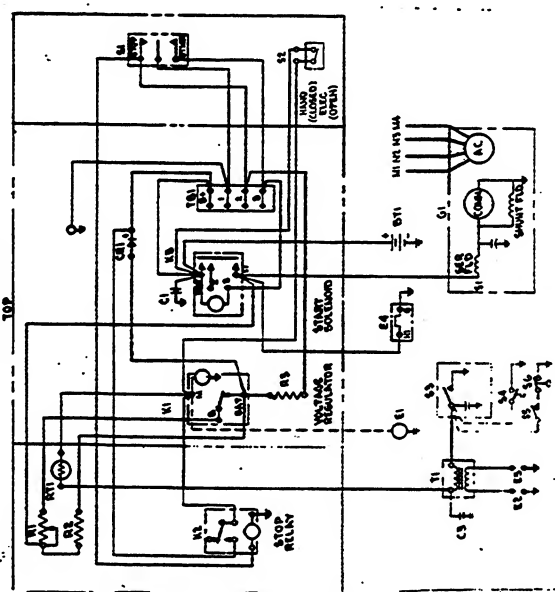
PLACE INFORMATION ON INSIDE OF COVER

DATE	BY	REVISION	DESCRIPTION
10/1/54	W	1	10/1/54
10/1/54	W	2	10/1/54
10/1/54	W	3	10/1/54
10/1/54	W	4	10/1/54

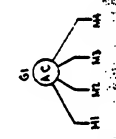
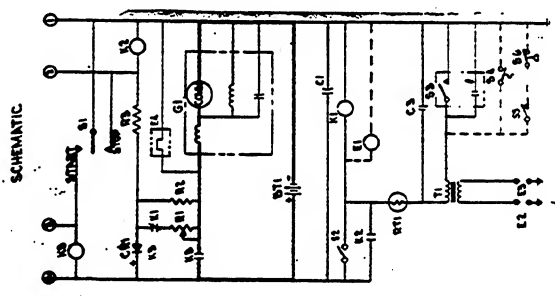
611C1054	10/1/54	W	1	10/1/54
611C1054	10/1/54	W	2	10/1/54
611C1054	10/1/54	W	3	10/1/54
611C1054	10/1/54	W	4	10/1/54

611C1061

WIRING DIAGRAM  
INSIDE VIEW OF BOX  
TOP



\* BT1  
BT1 IS CONNECTED TO BT2  
ON THE 400V. 110V CONNECTION TO  
CHASSIS IN ENGINE.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
CI	312A57	1	Capacitor 1.0 MFD.
CRI	305B235	1	Diode, Reverse Current
	305A254	1	Heat Sink
K1	305B383	1	Relay, 2-Step Voltage Reg.
K2	307B253	1	Relay, Stop
K3	307B845	1	Relay, Start Solenoid
R1	304A175	1	Resistor, 1-Ohm, 50Watt, Adj.
R2	304A344	1	Resistor, 1-Ohm, 25Watt
R3	304A251	1	Resistor, 30-Ohm, 5Watt
RT1	304A60	1	Resistor, Hytemco, 1.72-Ohm, 25Watt
SI	308P154	1	Switch, Start/Stop
S2	308P2	1	Switch, Hand/Elect. Start
TBI	332A537	1	Block, Terminal
	332A566	1	Strip, Marker
	301B3227	1	Bracket, Control Box Mtg.
	301D3228	1	Control Box
	301B3102	1	Cover
	508-1	3	Grommet
BT1		1	Battery, 12-Volt
C3	312A162	1	Capacitor 0.1 MFD.
*E1		1	Fuel Pump
E2, 3		2	Spark Plug
E4		1	Choke, Electric
G1		1	Generator
S3		1	Breaker & Cap Assembly
*S4	309A2	1	Switch, High Air Temp.
*S5	308-97	1	Switch
*S6	309A10	1	Switch, Low Oil Pressure
T1		1	Ignition Coil (ONAN)

\* - When Used.

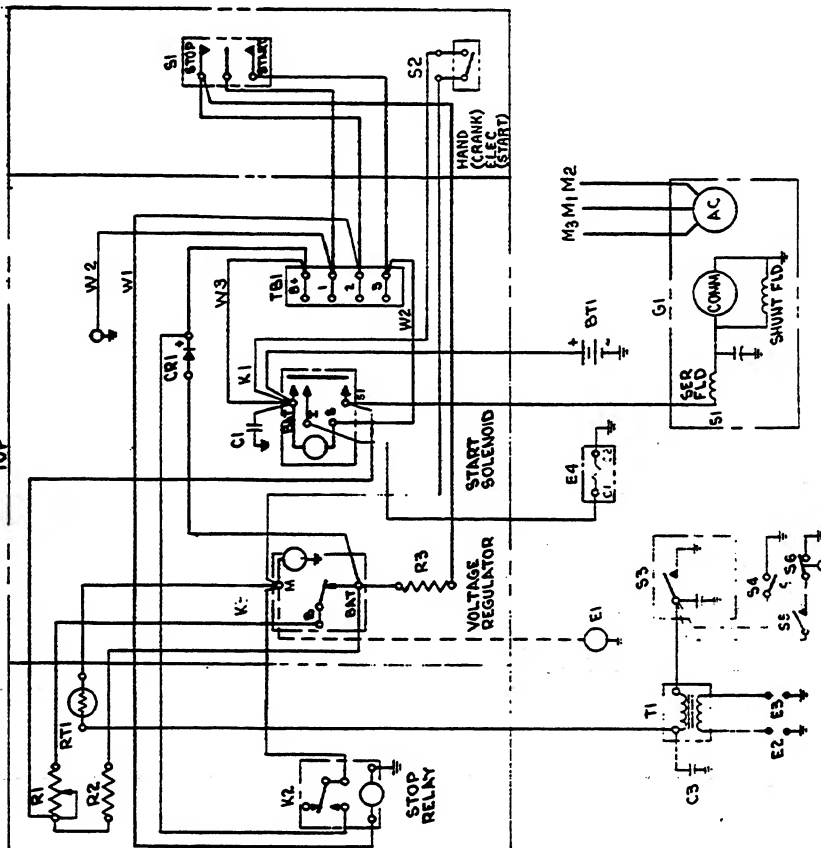
PLACE SILVERSCREEN ON INSIDE OF COVER.

100% SW	REPAIR/REPLACE	400% SW
100% SW	REPAIR/REPLACE	400% SW
100% SW	REPAIR/REPLACE	400% SW
100% SW	REPAIR/REPLACE	400% SW
100% SW	REPAIR/REPLACE	400% SW

DATE	BY	REVISION
10/15/10	10/15/10	10/15/10
10/15/10	10/15/10	10/15/10
10/15/10	10/15/10	10/15/10
10/15/10	10/15/10	10/15/10

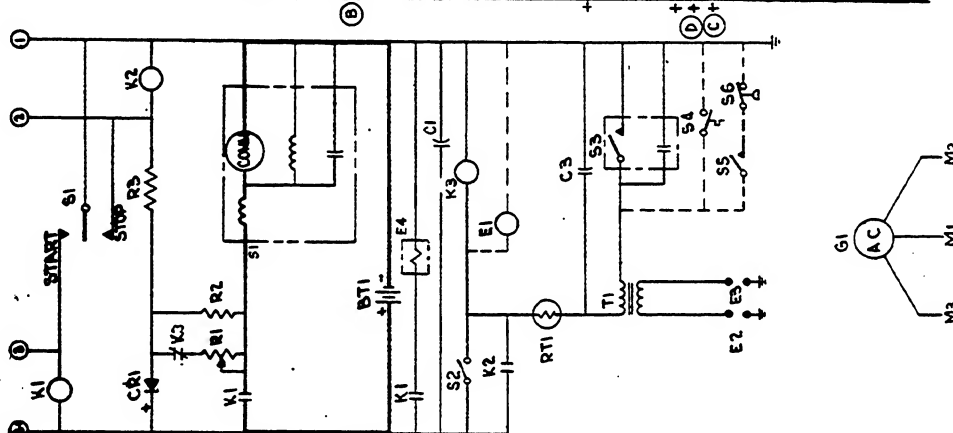
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10/15/10	10/15/10	10/15/10
10/15/10	10/15/10	10/15/10
10/15/10	10/15/10	10/15/10

611C1067

WIRING DIAGRAM  
INSIDE VIEW OF BOX  
TOP

NOTE:  
W2 IS GROUND AC LEAD  
M1 & M3 HAVE .1 MFD CAPACITOR TO  
GROUND IN GENERATOR.

SCHEMATIC



REL. DES.	PART NO.	QTY.	DESCRIPTION
C1	312A105	1	CAPACITOR ASSY
C2	304A484	1	DIODE ASSY
C3	308B235 (REF)	1	DIODE-REVERSE CURRENT
K1	305A234 (REF)	1	HEAT SINK
K2	307B445	1	RELAY-START SOLENOID
K3	307B437 (REF)	1	RELAY-STOP
R1	304A175 (REF)	1	RESISTOR-ADJ. 1 OHM .50 W
R2	304A234 (REF)	1	RESISTOR-TIMED 1 OHM .25 W
R3	304A234	1	RESISTOR 1.72 OHM .25 W
S1	308A284	1	SWITCH-START/STOP
S2	308A284	1	SWITCH-STOP
S3	304A234 (REF)	1	RESISTOR 50 OHM .5 W
T1	332A537	1	TERMINAL BLOCK
W1	332A538	1	WIRE STRIP
W2	332A538	1	WIRE STRIP
W3	332A538	1	WIRE STRIP
W4	332A538	1	WIRE STRIP
W5	332A538	1	WIRE STRIP
W6	332A538	1	WIRE STRIP
W7	332A538	1	WIRE STRIP
W8	332A538	1	WIRE STRIP
W9	332A538	1	WIRE STRIP
W10	332A538	1	WIRE STRIP
W11	332A538	1	WIRE STRIP
W12	332A538	1	WIRE STRIP
W13	332A538	1	WIRE STRIP
W14	332A538	1	WIRE STRIP
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W22	332A538	1	WIRE STRIP
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W95	332A538	1	WIRE STRIP
W96	332A538	1	WIRE STRIP
W97	332A538	1	WIRE STRIP
W98	332A538	1	WIRE STRIP
W99	332A538	1	WIRE STRIP
W100	332A538	1	WIRE STRIP

+ WHEN USED

REPLACES 2 WIRELESS  
DIRECTED 5  
C/HAS SS  
B ADDED 2.32.330  
A G-11E 7A6 REV 5.1

4.0 CCK-3R/600CP  
5.0 CCK-3R/600CP

4.0 CCK-3R/938 IN  
5.0 CCK-3R/938 IN

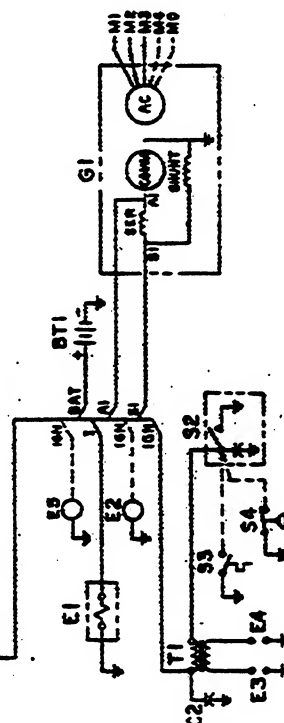
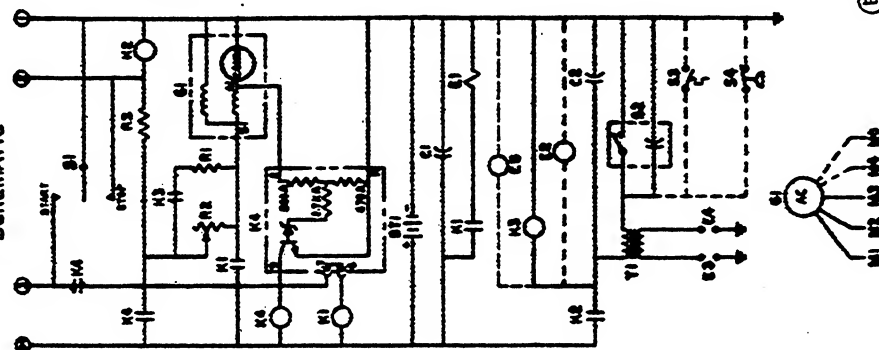
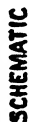
120/240V, 1PH, 60CT  
3 W.

611C1067

NOTE:  
UNLESS OTHERWISE NOTED, ALL  
COMPONENTS ARE SHOWN IN THE  
DE-ENERGIZED POSITION



**PARIS '11**

[illegible]

**OSIN NAHA**

[illegible]

15.5 NH-MNR/6000C	12 V REMOTE
6.5 NH-MNR/6000C	4 W 50-60 Hz



1. 174.  
2. 374  
3. 374  
4. 374

1700.

CHS  
14  
13  
12  
11

SHIP GAMES

[illegible]

8-1

100

01	1000
02	1000
03	1000
04	1000

100V. 30  
100V. 30  
100V. 30

11	12	13	14

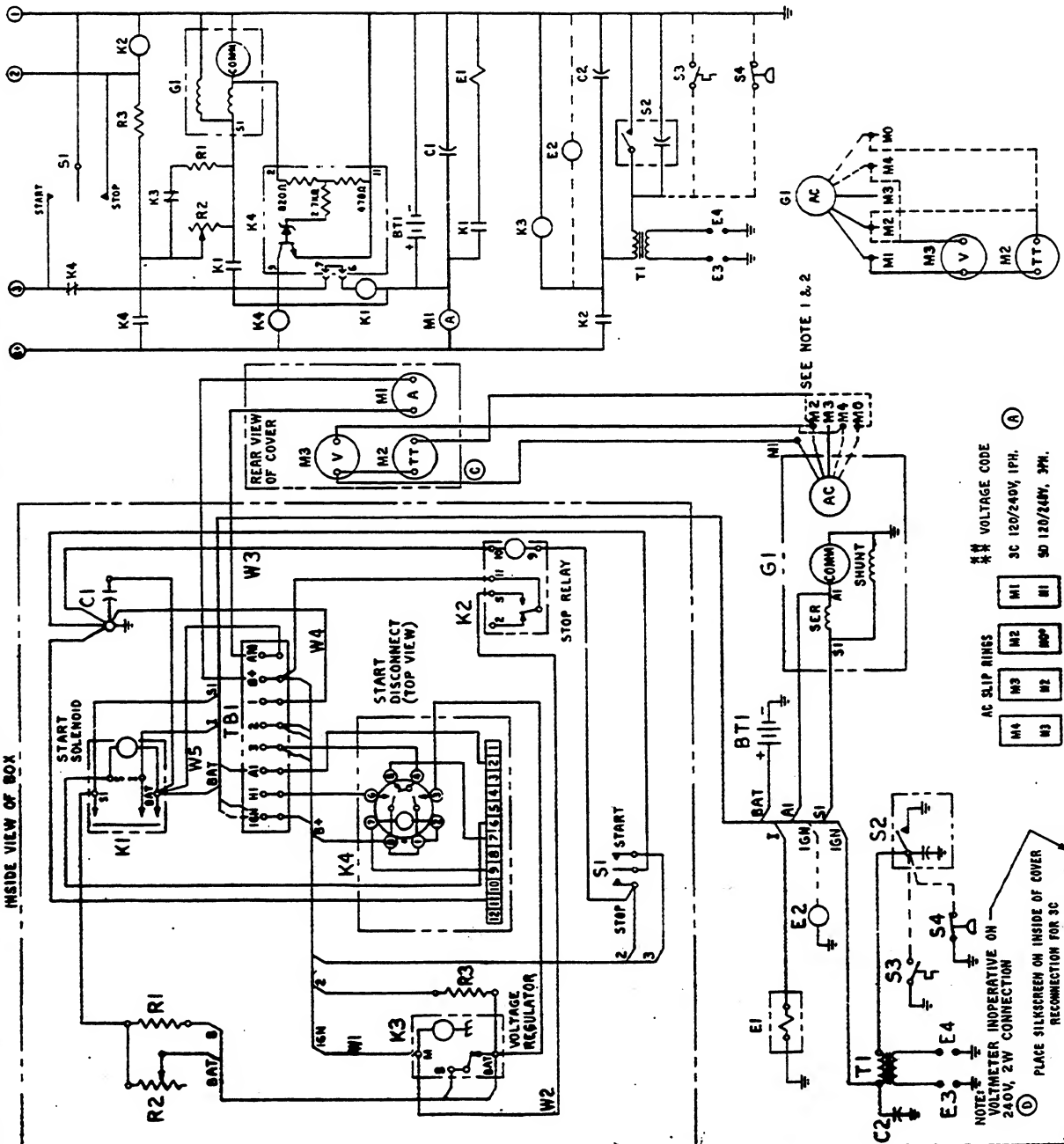
PLATE 311  
1204, 20  
1204

100

611C1080

# WIRING DIAGRAM INSIDE VIEW OF BOX

## SCHEMATIC



REF. DES.	QTY	DESCRIPTION	REF. DES.	QTY	DESCRIPTION
C1	1	CAPACITOR 1.0 MFD	W1	1	WIRE-START SOLENOID
K1	1	RELAY-STOP	W2	1	RELAY-2 STEP VOLTAGE REGULATOR
K2	1	RELAY-START	W3	1	RELAY-START DISCONNECT
K3	1	RELAY-START DISCONNECT	W4	1	RELAY-START DISCONNECT
K4	1	RELAY-START DISCONNECT	W5	1	RELAY-START DISCONNECT
R1	1	RESISTOR 50 50 W	W6	1	RELAY-START DISCONNECT
R2	1	RESISTOR 50 50 W	W7	1	RELAY-START DISCONNECT
R3	1	RESISTOR 50 50 W	W8	1	RELAY-START DISCONNECT
S1	1	SWITCH-START STOP	W9	1	RELAY-START DISCONNECT
S2	1	SWITCH-START STOP	W10	1	RELAY-START DISCONNECT
S3	1	SWITCH-START STOP	W11	1	RELAY-START DISCONNECT
S4	1	SWITCH-START STOP	W12	1	RELAY-START DISCONNECT
T1	1	TRANSFORMER 10-0-10	W13	1	RELAY-START DISCONNECT
T2	1	TRANSFORMER 10-0-10	W14	1	RELAY-START DISCONNECT
T3	1	TRANSFORMER 10-0-10	W15	1	RELAY-START DISCONNECT
T4	1	TRANSFORMER 10-0-10	W16	1	RELAY-START DISCONNECT
T5	1	TRANSFORMER 10-0-10	W17	1	RELAY-START DISCONNECT
T6	1	TRANSFORMER 10-0-10	W18	1	RELAY-START DISCONNECT
T7	1	TRANSFORMER 10-0-10	W19	1	RELAY-START DISCONNECT
T8	1	TRANSFORMER 10-0-10	W20	1	RELAY-START DISCONNECT
T9	1	TRANSFORMER 10-0-10	W21	1	RELAY-START DISCONNECT
T10	1	TRANSFORMER 10-0-10	W22	1	RELAY-START DISCONNECT
T11	1	TRANSFORMER 10-0-10	W23	1	RELAY-START DISCONNECT
T12	1	TRANSFORMER 10-0-10	W24	1	RELAY-START DISCONNECT
T13	1	TRANSFORMER 10-0-10	W25	1	RELAY-START DISCONNECT
T14	1	TRANSFORMER 10-0-10	W26	1	RELAY-START DISCONNECT
T15	1	TRANSFORMER 10-0-10	W27	1	RELAY-START DISCONNECT
T16	1	TRANSFORMER 10-0-10	W28	1	RELAY-START DISCONNECT
T17	1	TRANSFORMER 10-0-10	W29	1	RELAY-START DISCONNECT
T18	1	TRANSFORMER 10-0-10	W30	1	RELAY-START DISCONNECT
T19	1	TRANSFORMER 10-0-10	W31	1	RELAY-START DISCONNECT
T20	1	TRANSFORMER 10-0-10	W32	1	RELAY-START DISCONNECT
T21	1	TRANSFORMER 10-0-10	W33	1	RELAY-START DISCONNECT
T22	1	TRANSFORMER 10-0-10	W34	1	RELAY-START DISCONNECT
T23	1	TRANSFORMER 10-0-10	W35	1	RELAY-START DISCONNECT
T24	1	TRANSFORMER 10-0-10	W36	1	RELAY-START DISCONNECT
T25	1	TRANSFORMER 10-0-10	W37	1	RELAY-START DISCONNECT
T26	1	TRANSFORMER 10-0-10	W38	1	RELAY-START DISCONNECT
T27	1	TRANSFORMER 10-0-10	W39	1	RELAY-START DISCONNECT
T28	1	TRANSFORMER 10-0-10	W40	1	RELAY-START DISCONNECT
T29	1	TRANSFORMER 10-0-10	W41	1	RELAY-START DISCONNECT
T30	1	TRANSFORMER 10-0-10	W42	1	RELAY-START DISCONNECT
T31	1	TRANSFORMER 10-0-10	W43	1	RELAY-START DISCONNECT
T32	1	TRANSFORMER 10-0-10	W44	1	RELAY-START DISCONNECT
T33	1	TRANSFORMER 10-0-10	W45	1	RELAY-START DISCONNECT
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T35	1	TRANSFORMER 10-0-10	W47	1	RELAY-START DISCONNECT
T36	1	TRANSFORMER 10-0-10	W48	1	RELAY-START DISCONNECT
T37	1	TRANSFORMER 10-0-10	W49	1	RELAY-START DISCONNECT
T38	1	TRANSFORMER 10-0-10	W50	1	RELAY-START DISCONNECT
T39	1	TRANSFORMER 10-0-10	W51	1	RELAY-START DISCONNECT
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T42	1	TRANSFORMER 10-0-10	W54	1	RELAY-START DISCONNECT
T43	1	TRANSFORMER 10-0-10	W55	1	RELAY-START DISCONNECT
T44	1	TRANSFORMER 10-0-10	W56	1	RELAY-START DISCONNECT
T45	1	TRANSFORMER 10-0-10	W57	1	RELAY-START DISCONNECT
T46	1	TRANSFORMER 10-0-10	W58	1	RELAY-START DISCONNECT
T47	1	TRANSFORMER 10-0-10	W59	1	RELAY-START DISCONNECT
T48	1	TRANSFORMER 10-0-10	W60	1	RELAY-START DISCONNECT
T49	1	TRANSFORMER 10-0-10	W61	1	RELAY-START DISCONNECT
T50	1	TRANSFORMER 10-0-10	W62	1	RELAY-START DISCONNECT
T51	1	TRANSFORMER 10-0-10	W63	1	RELAY-START DISCONNECT
T52	1	TRANSFORMER 10-0-10	W64	1	RELAY-START DISCONNECT
T53	1	TRANSFORMER 10-0-10	W65	1	RELAY-START DISCONNECT
T54	1	TRANSFORMER 10-0-10	W66	1	RELAY-START DISCONNECT
T55	1	TRANSFORMER 10-0-10	W67	1	RELAY-START DISCONNECT
T56	1	TRANSFORMER 10-0-10	W68	1	RELAY-START DISCONNECT
T57	1	TRANSFORMER 10-0-10	W69	1	RELAY-START DISCONNECT
T58	1	TRANSFORMER 10-0-10	W70	1	RELAY-START DISCONNECT
T59	1	TRANSFORMER 10-0-10	W71	1	RELAY-START DISCONNECT
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T61	1	TRANSFORMER 10-0-10	W73	1	RELAY-START DISCONNECT
T62	1	TRANSFORMER 10-0-10	W74	1	RELAY-START DISCONNECT
T63	1	TRANSFORMER 10-0-10	W75	1	RELAY-START DISCONNECT
T64	1	TRANSFORMER 10-0-10	W76	1	RELAY-START DISCONNECT
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T67	1	TRANSFORMER 10-0-10	W79	1	RELAY-START DISCONNECT
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T75	1	TRANSFORMER 10-0-10	W87	1	RELAY-START DISCONNECT
T76	1	TRANSFORMER 10-0-10	W88	1	RELAY-START DISCONNECT
T77	1	TRANSFORMER 10-0-10	W89	1	RELAY-START DISCONNECT
T78	1	TRANSFORMER 10-0-10	W90	1	RELAY-START DISCONNECT
T79	1	TRANSFORMER 10-0-10	W91	1	RELAY-START DISCONNECT
T80	1	TRANSFORMER 10-0-10	W92	1	RELAY-START DISCONNECT
T81	1	TRANSFORMER 10-0-10	W93	1	RELAY-START DISCONNECT
T82	1	TRANSFORMER 10-0-10	W94	1	RELAY-START DISCONNECT
T83	1	TRANSFORMER 10-0-10	W95	1	RELAY-START DISCONNECT
T84	1	TRANSFORMER 10-0-10	W96	1	RELAY-START DISCONNECT
T85	1	TRANSFORMER 10-0-10	W97	1	RELAY-START DISCONNECT
T86	1	TRANSFORMER 10-0-10	W98	1	RELAY-START DISCONNECT
T87	1	TRANSFORMER 10-0-10	W99	1	RELAY-START DISCONNECT
T88	1	TRANSFORMER 10-0-10	W100	1	RELAY-START DISCONNECT

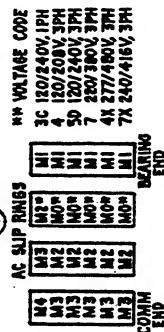
611C1080	CONTROL - GEN SET (WIRING DIAGRAM)	08013119
4-26-71	CDR	
6.5NH-#R/10760C	12 V REMOTE	
12 V REMOTE		
HUNTSVILLE		

NOTE:  
1. CONNECT RUNNING TIME METER TO LEADS M1 & M2 FOR A 3CR GEN & TO LEADS M1 & M2 FOR A 5CR GEN.  
2. CONNECT VOLT METER TO LEADS M1 & M2 FOR A 3CR GEN & TO LEADS M1 & M2 FOR A 5CR GEN.

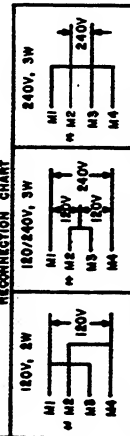
AC SLIP RINGS	VOLTAGE CODE
M1	3C 120/240V, 1PH.
M2	3C 120/240V, 3PH.
M3	3C 120/240V, 3PH.
M4	3C 120/240V, 3PH.

120V, 2W	120V, 2W	240V, 2W
M1	M1	M1
M2	M2	M2
M3	M3	M3
M4	M4	M4

## WIRING DIAGRAM



**\* GROUND AC LEAD**



DASH NO	CHOKE	MODEL	WIRING HARNESS	CONTROL ASSY
-01	SISSON CHOKE	CKK,NH	336D040	300D1000
-02	ONAN CHOKE	CKK	336D091	300D1000
-03	NO CHOKE	GAS CARB	CKK,NH	300D1108
-04	NO CHOKE	HATKO GAS	CKK,NH	300D1108
-05	SISSON CHOKE	HATKO	336D0775	300D1100

5.5NH - 4WR/12000D  
35842CCK - 4WR/12000R  
120/240V., 1PH  
4W., 50HZ

6.5 NH - NH / 12000D  
4 B 5CCK - NH / 12000R  
20/240V., 1 PH  
1W., 60Hz.

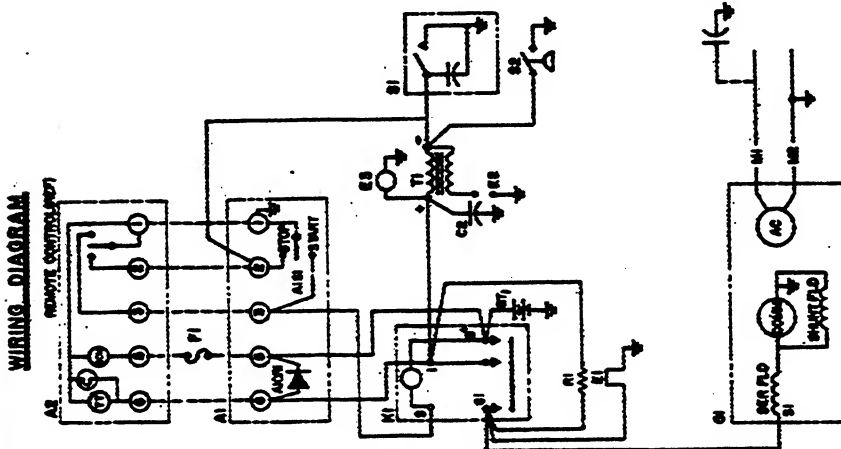
[illegible]

ENG. DES.	PART NO.	QTY	PARTS LIST	DESCRIPTION
	SEE TAB	1		CONTROL ASSY
A1	3000450 (REF)	1		CONTROL-GEN SET ASSY
A2	3000435 (REF)	1		CONTROL-START ADAPTER (4 TO 3 WIRE)
S4		1		SWITCH-START STOP (CUSTOMER REMOTE)
S1	SEE TAB	1		WIRING HARNESS
F3	821430	1		HOLDER ASSY - FUSE
	821434 (REF)	1		FUSE
A3	3000227 (REF)	1		CONTROL-DISC ADPTR
			PARTS LIST ENG GEN (REF)	
B11		1	BATTERY-12 VDC	
C1		1	CAPACITOR-0.1 MFD	
E1		1	PUMP-FUEL (WHEN USED)	
E4,E3		2	SPARK PLUG	
E4		1	CHOKE-SILVERON (WHEN USED)	
E5		1	CHOKE-MAIN (WHEN USED)	
G1		1	GENERATOR	
G1G1T	357-17	1	010M-3A	
G1R1	310-47	1	REELION	
E1	2040100	1	RELAY-START SOLENOID	
F1	331P100	1	HOLDER ASSY-FUSE	
K2	10001037	1	SOLENOID-START	
R1	10001038	1	LEAD ASSY-24 TENSION	
R2	10001039	1	LEAD ASSY-36 TENSION	
B11	300-10	1	RELECTOR-INTERCO 1.780, 210	
S1		1	SWITCH-IGN OIL PRESS	
S2		1	SWITCH-HIGH AIR TEMP (WHEN USED)	
S3		1	BRAKES & CIP ASST	
S4		1	SWITCH-REMOTE START STOP	
T1		1	COIL-IGNITION	
				980101019

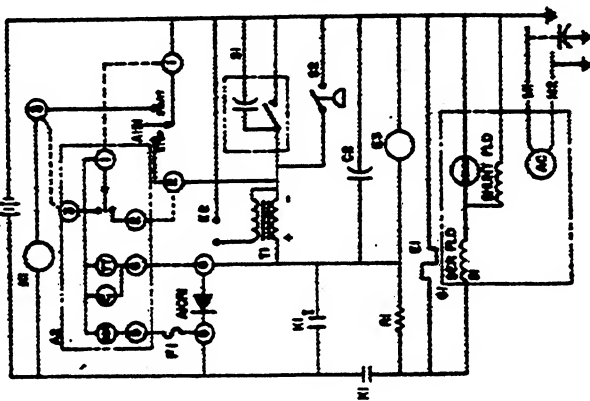




## WIRING DIAGRAM



## SCHEMATIC



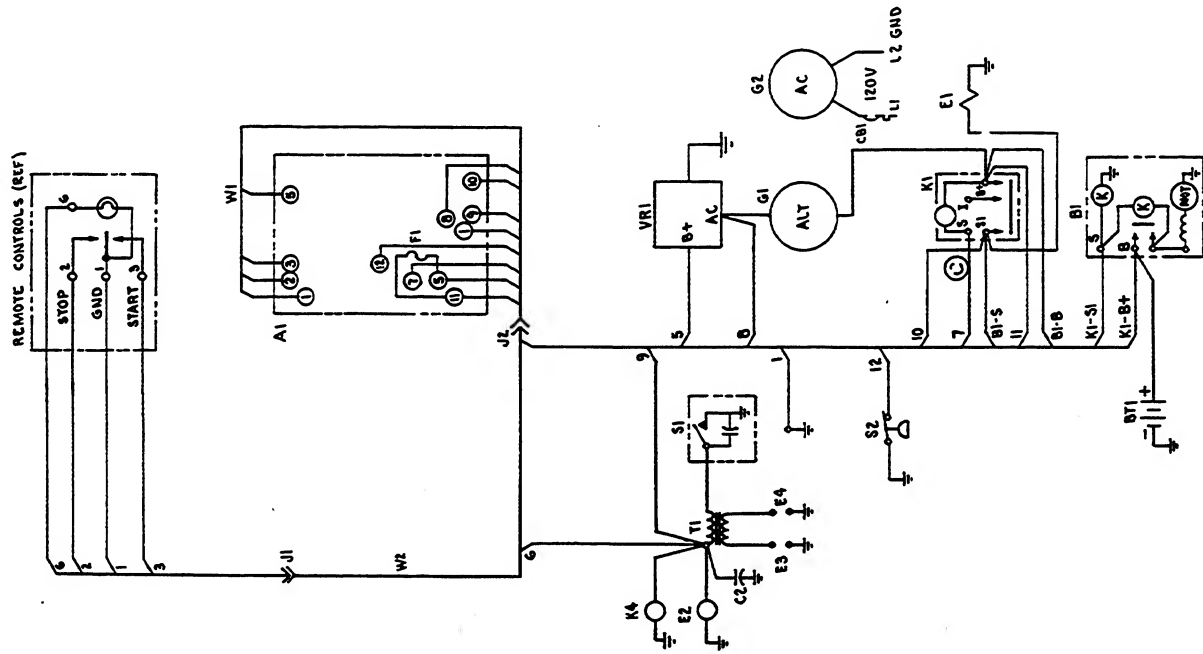
**NOTE:**  
1. FUSE (BAMP) TO BE SUPPLIED BY CUSTOMER TO PROTECT AGAINST ACCIDENTAL GROUNDING

REF. DES.	PART NO.	QTY.	DESCRIPTION
A1	300C1035	1	CONTROL ASSY- GEN SET
AI	300C1035	1	DIODE ASSY (REF)
AI	305-0022	1	SWITCH-TOGGLE (REF)
AI	308-0345	1	REMOTE CONTROL (REF)
A2	300-0986	1	BATTERY-12V
B1	BT1	1	CAPACITOR
E1	C2	1	CHOKE-ORAN
E2	E1	1	SWIK PLUG
E3	307A103	1	VALVEHOOD-FUEL (REF)
G1		1	GENERATOR
K1		1	SOLENOID-START
R1	353B0050	1	RESISTOR ASSY (REF) 10 ± 5% 0.1W 43W
S1	309P0237	1	BREAKER- & CAP ASSY
S2		1	SWITCH-LOW OIL PRESS (REF)
T1		1	COIL-IGNITION
F1	SEE NOTE #1		

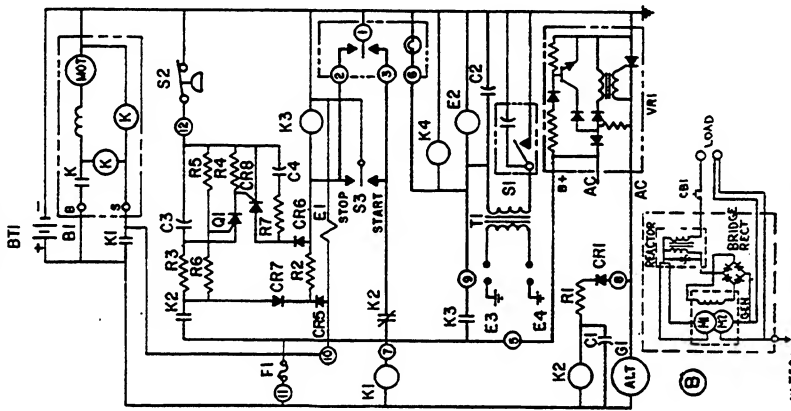
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41	07 15000	102 5271	41
42	07 15000	102 5271	42
43	07 15000	102 5271	43
44	07 15000	102 5271	44
45	07 15000	102 5271	45
46	07 15000	102 5271	46
47	07 15000	102 5271	47
48	07 15000	102 5271	48
49	07 15000	102 5271	49
50	07 15000	102 5271	50
51	07 15000	102 5271	51
52	07 15000	102 5271	52
53	07 15000	102 5271	53
54	07 15000	102 5271	54
55	07 15000	102 5271	55
56	07 15000	102 5271	56
57	07 15000	102 5271	57
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64	07 15000	102 5271	64
65	07 15000	102 5271	65
66	07 15000	102 5271	66
67	07 15000	102 5271	67
68	07 15000	102 5271	68
69	07 15000	102 5271	69
70	07 15000	102 5271	70
71	07 15000	102 5271	71
72	07 15000	102 5271	72
73	07 15000	102 5271	73
74	07 15000	102 5271	74
75	07 15000	102 5271	75
76	07 15000	102 5271	76
77	07 15000	102 5271	77
78	07 15000	102 5271	78
79	07 15000	102 5271	79
80	07 15000	102 5271	80
81	07 15000	1	

611-1109

## WIRING DIAGRAM



## SCHEMATIC



NOTES:  
1. DELUXE REMOTE CONTROL (310-088(2)) MAY BE USED IF AN ADDITIONAL WIRE FROM TERMINAL 5 OF J2 TO TERMINAL 5 OF DELUXE REMOTE CONTROL IS ADDED.

2. ON 4.0 BF-12/9500 AND 6.0 NH-12/9500 J1 IS ELIMINATED AND THE ADDITIONAL WIRE FOR THE DELUXE REMOTE CONTROLS IS PROVIDED.

3. MIN START DISCONNECT = 675 RPM.

REF. DES.	PART NO.	QTY	DESCRIPTION
A1	300-1075	1	CONTROL-ASYT-GEN SET
B1		1	STARTER-SOLENOID SHIFT
BT1		1	BATTERY-12 VOLT
C2		1	CAPACITOR
E1		1	CHOKE
E2		1	FUEL PUMP
E3.4		2	SPARK PLUG
G1		1	ALTERNATOR
K1		1	SOLENOID-START
K4		1	SOLENOID-FUEL
S1		1	BREAKER & CAP ASSY
S2		1	SWITCH-LOW OIL PRESS
T1		1	COIL-IGNITION
VR1		1	VOLTAGE REGULATOR
W1		1	WIRING HARNESS-GEN SET
W2		1	WIRING HARNESS-REMOTE
J1		1	CONNECTOR 4 CRT
J2		1	CONNECTOR 12 CRT
		1	CIRCUIT BREAKER (40A 4BP)
		1	CIRCUIT BREAKER (60A 8BH)

6011-1109

C1 WAS KI-1, TO KI-51	CONTRACT NO.	611-1109
B1 ADDED AC TO 5-CHEMICAL	DATE	6-1-75
A1 CBI ADDED	BY	6-1-75
REVISION	DATE	6-1-75
1	DATE	6-1-75
2	DATE	6-1-75
3	DATE	6-1-75
4	DATE	6-1-75
5	DATE	6-1-75
6	DATE	6-1-75
7	DATE	6-1-75
8	DATE	6-1-75
9	DATE	6-1-75
10	DATE	6-1-75
11	DATE	6-1-75
12	DATE	6-1-75
13	DATE	6-1-75
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16	DATE	6-1-75
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95	DATE	6-1-75
96	DATE	6-1-75
97	DATE	6-1-75
98	DATE	6-1-75
99	DATE	6-1-75
100	DATE	6-1-75

MOORE NO.	4.0 BF-12/9500
6.0 NH-12/9500	
120V, 1PH, 3W, 60 HZ	

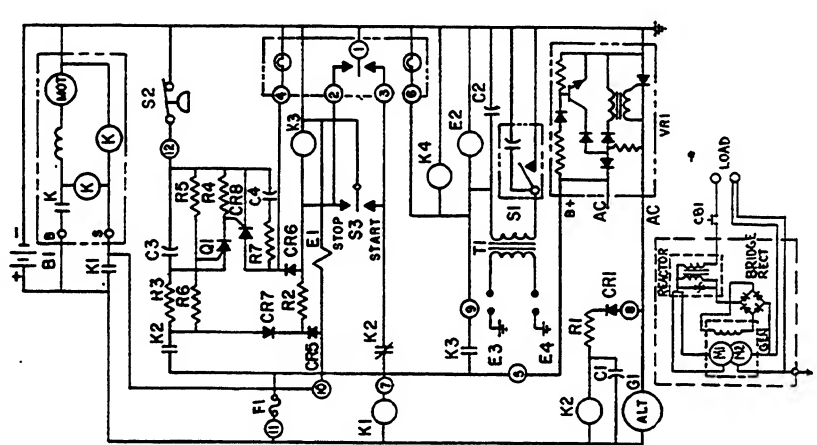
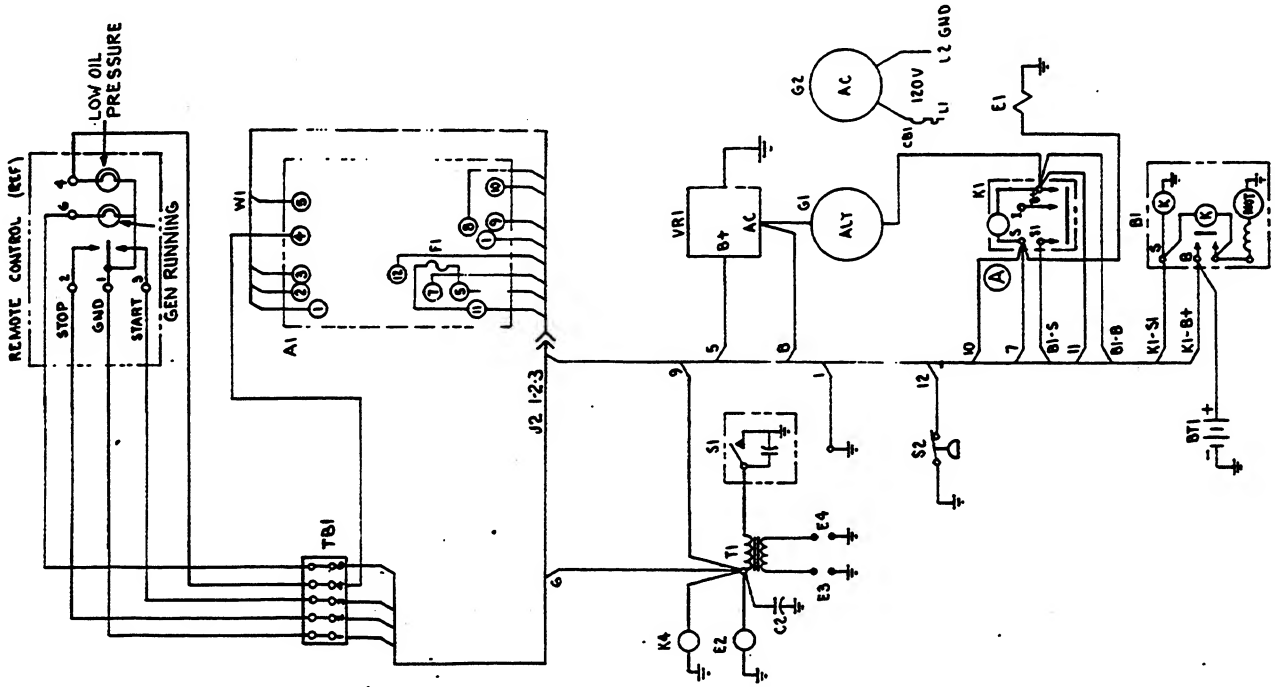
611-1109

611-1109

611-1121

WIRING DIAGRAM

SCHEMATIC



NOTE:  
1. MIN START DISCONNECT = 675 RPM

REF. DES.	PART NO.	QTY	DESCRIPTION
A1	300-1075	1	CONTROL ASST-GEN SET
B1		1	CONTROL-NOT HOME
BT1		1	STARTER-SOLENOID SHIF
G2		1	BATTERY-12 VOLT
E1		1	CAPACITOR
E2		1	CHOKE
E3		2	FUEL PUMP
G1		1	SPARK PLUG
G2		1	ALTERNATOR
K1		1	GENERATOR
K2		1	SOLENOID-START
K3		1	SOLENOID-FUEL
K4		1	SOLENOID-START
S1		1	SWITCH-LOW OIL PRESS
S2		1	SWITCH-LOW OIL PRESS
VR1		1	COIL-IGNITION
VR1		1	VOLUME REGULATOR
VR1		1	WIRING HARNESS-GEN SET
VR1		1	REMOTE TERMINAL BLOCK
J2		1	CONNECTOR 12 CKT
CBI		1	CIRCUIT BREAKER (40A 4BF)

1211-1121

ATWAS KI-1 TO KI-51 (08/21/83)

REVISION: 1-2-75

DATE: 1-2-75

BY: [Signature]

CONTROL-GEN SET (WIRING DIAGRAM)

611-1121

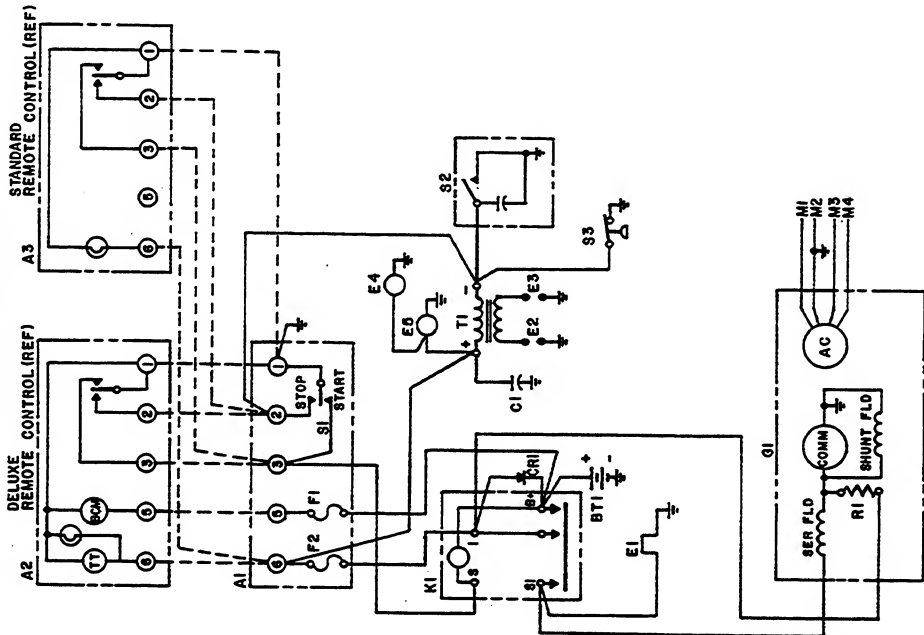
HUNTSVILLE

4.0 BF-1R/15203C

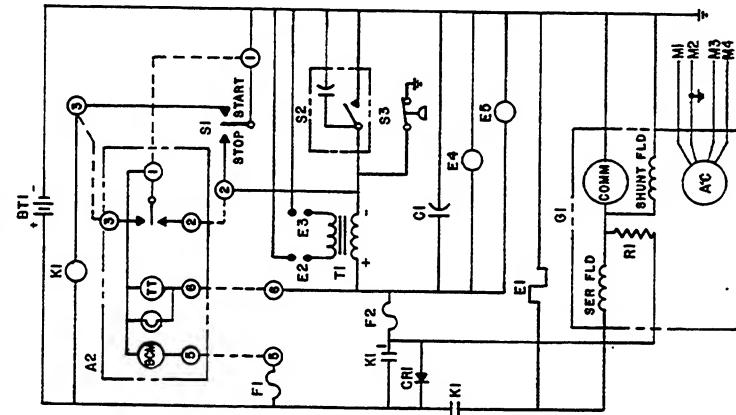
120V, 1PH, 3W, 60 Hz

611-1123 C

WIRING DIAGRAM



SCHEMATIC



PART LIST			DESCRIPTION	
PART NO.	QTY	REF		
A1	1	C	CONTROL ASSY	
A2	1	B	DELUXE REMOTE CONTROL (REF)	
A3	1	B	STANDARD REMOTE CONT (REF)	
BT1	1		BATTERY 12V	
CI	1		CAPACITOR	
CRI	1	A	DIODE ASSY (REF)	
E1	1		CHOKE-ONAN	
E2	2		SPARK PLUG	
E4	1	A	SOLENOID-FUEL (REF)	
E6	1		FUEL-PUMP (REF)	
F1	2		FUSE (9 AMP 32V) (REF)	
GI	1		GENERATOR	
K1	1		SOLENOID-START	
R1	1	B	RESISTOR FIXED (REF)	
S1	1		SWITCH-START-STOP	
S2	1		BREAKER & CAP ASSY	
S3	1	P	SWITCH-LOW OIL PRESS (REF)	
T1	1		COIL-IGNITION	
W1	1	B	WIRING HARNESS (CONN-REMOTE) (REF)	
W2	1	C	WIRING HARNESS (CABLE-REMOTE CONTROL) (10 FEET LONG) (REF)	
W3	1	C	WIRING HARNESS (CABLE-REMOTE CONTROL) (30 FEET LONG) (REF)	

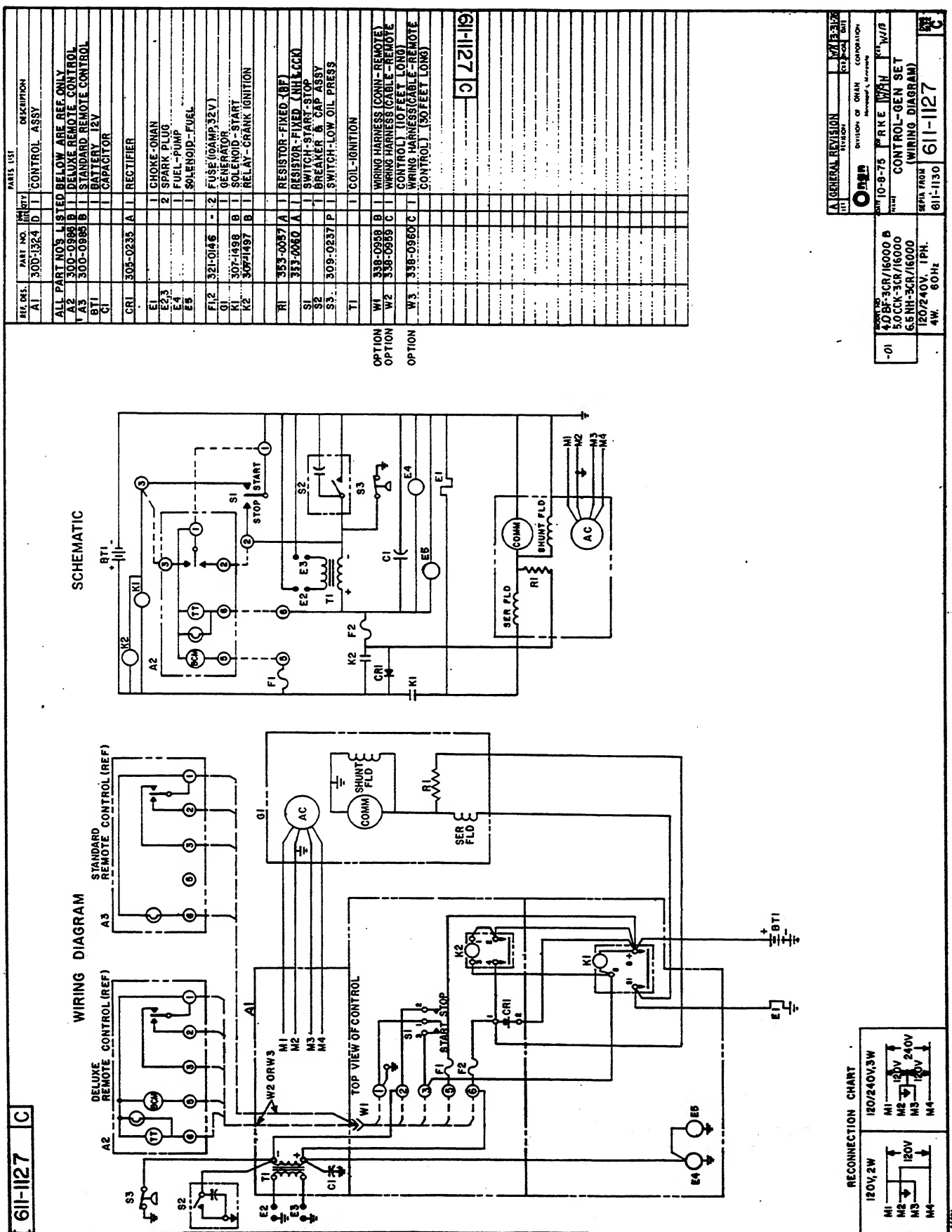
OPTION  
OPTION  
OPTION

611-1123 C

A COMPLETED MODEL NO. 611-1123	
DIVISION OF STUDEBAKER CORPORATION	
DATE 4-10-75	
BY J. J. B.	
TITLE CONTROL-GEN SET	
(WIRING DIAGRAM)	
DRAWN BY 611-1123	

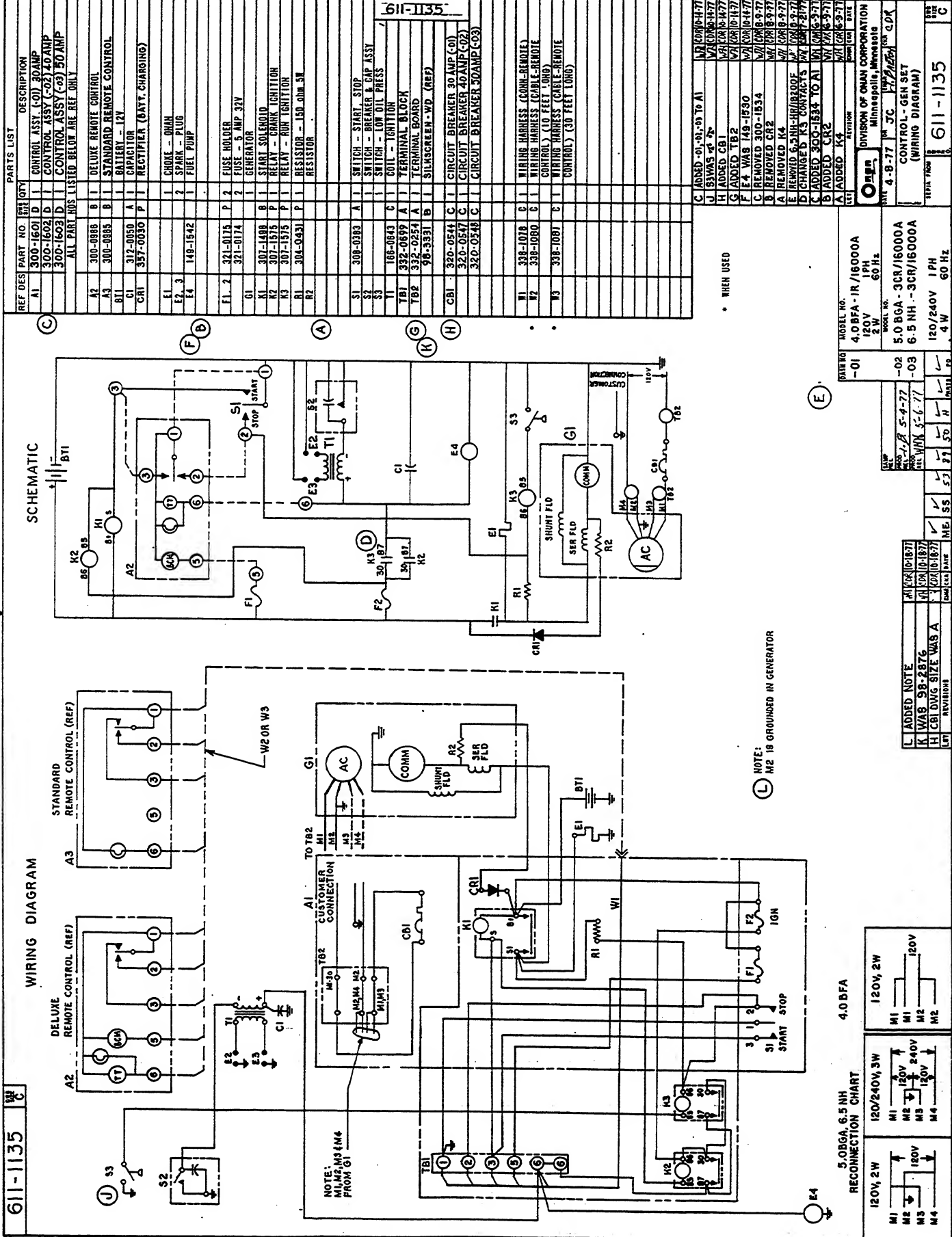
-O1 4.0BF-3CR/16002A	
120/240V. 1PH.	
4W. 60 Hz	

RECONNECTION CHART	
120V. 2W	120/240V. 3W
M1	M1
M2	M2
M3	M3
M4	M4





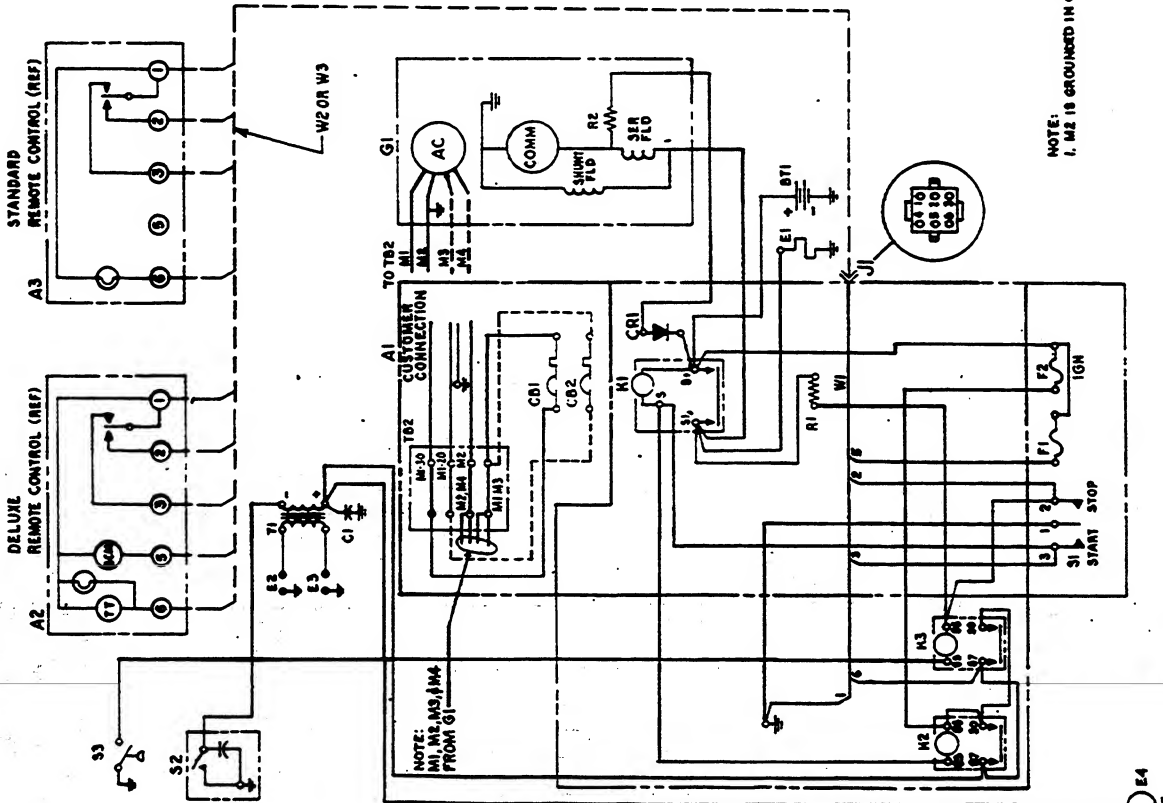






611-1138.

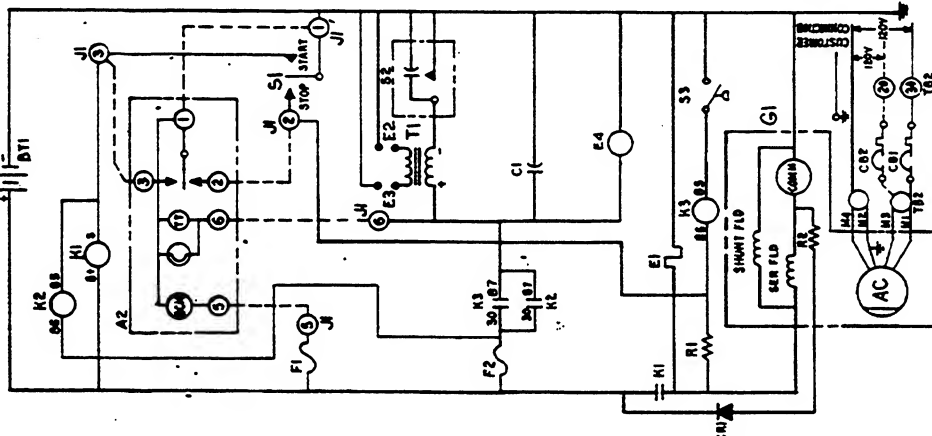
# WIRING DIAGRAM



NOTE:  
M1, M2, M3, M4  
FROM G1

NOTE:  
1. M2 IS GROUNDED IN GENERATOR

# SCHEMATIC



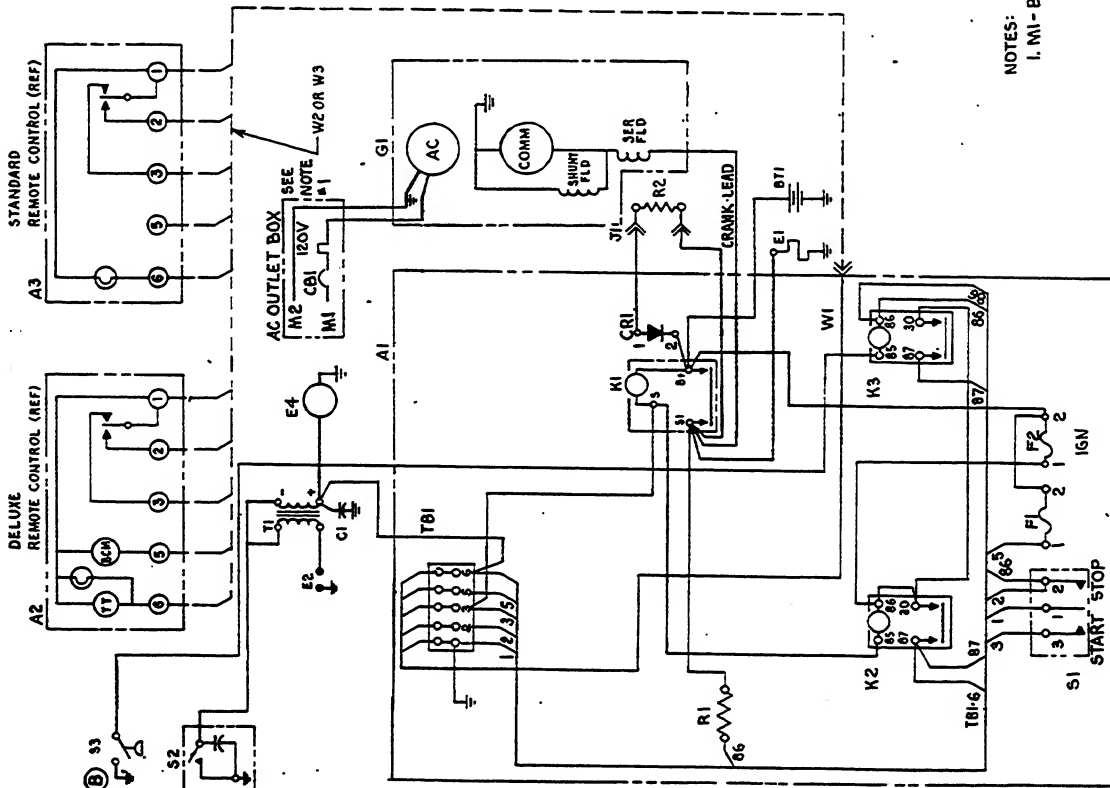
• WHEN USED

REF DES	PART NO.	QTY	DESCRIPTION
A1	300-1541 D	1	CONTROL ASSY - 01
A2	300-1542 D	1	CONTROL ASSY - 02
ALL PART NOS LISTED BELOW ARE REF ONLY			
A3	300-0986 B	1	DELUXE REMOTE CONTROL
A4	300-0985 B	1	STANDARD REMOTE CONTROL
B1	312-0050 A	1	BATTERY - 12V
C1	320-0444 C	1	CIRCUIT BREAKER 30AMP (-01, -02)
C2	320-0442 A	1	CIRCUIT BREAKER 30AMP (-02)
E1	337-0030 P	1	RECTIFIER (BATT. CHARGING)
E2	337-0030 P	1	CHOKER - OHM
E3	337-0030 P	1	SPARK - PLUG
E4	337-0030 P	1	FUEL PUMP
F1	321-0175 P	2	FUSE HOLDER
F2	321-0174 P	2	FUSE - 5 AMP 32V
G1	307-1488 B	1	GENERATOR
H1	307-1488 B	1	START SOLENOID
K2	307-1515 P	1	RELAY - CRANK IGNITION
K3	307-1515 P	1	RELAY - RUN IGNITION
R1	304-0431 P	1	RESISTOR - 150 OHM 5W
R2	304-0431 P	1	RESISTOR
J1	325-0440 C	1	SOCKET PLUG - REMOTE
S1	308-0313 A	1	SWITCH - START, STOP
S2	308-0313 A	1	SWITCH - BREAKER & CAP ASSY
S3	168-0643 C	1	SWITCH - LOW OIL PRESS
T1	168-0643 C	1	COIL - IGNITION
YB2	337-0284 A	1	TERMINAL BOARD
YB3	337-0284 A	1	TERMINAL BOARD
YB4	337-0284 A	1	TERMINAL BOARD
YB5	337-0284 A	1	TERMINAL BOARD
YB6	337-0284 A	1	TERMINAL BOARD
YB7	337-0284 A	1	TERMINAL BOARD
YB8	337-0284 A	1	TERMINAL BOARD
YB9	337-0284 A	1	TERMINAL BOARD
YB10	337-0284 A	1	TERMINAL BOARD
YB11	337-0284 A	1	TERMINAL BOARD
YB12	337-0284 A	1	TERMINAL BOARD
YB13	337-0284 A	1	TERMINAL BOARD
YB14	337-0284 A	1	TERMINAL BOARD
YB15	337-0284 A	1	TERMINAL BOARD
YB16	337-0284 A	1	TERMINAL BOARD
YB17	337-0284 A	1	TERMINAL BOARD
YB18	337-0284 A	1	TERMINAL BOARD
YB19	337-0284 A	1	TERMINAL BOARD
YB20	337-0284 A	1	TERMINAL BOARD
YB21	337-0284 A	1	TERMINAL BOARD
YB22	337-0284 A	1	TERMINAL BOARD
YB23	337-0284 A	1	TERMINAL BOARD
YB24	337-0284 A	1	TERMINAL BOARD
YB25	337-0284 A	1	TERMINAL BOARD
YB26	337-0284 A	1	TERMINAL BOARD
YB27	337-0284 A	1	TERMINAL BOARD
YB28	337-0284 A	1	TERMINAL BOARD
YB29	337-0284 A	1	TERMINAL BOARD
YB30	337-0284 A	1	TERMINAL BOARD
YB31	337-0284 A	1	TERMINAL BOARD
YB32	337-0284 A	1	TERMINAL BOARD
YB33	337-0284 A	1	TERMINAL BOARD
YB34	337-0284 A	1	TERMINAL BOARD
YB35	337-0284 A	1	TERMINAL BOARD
YB36	337-0284 A	1	TERMINAL BOARD
YB37	337-0284 A	1	TERMINAL BOARD
YB38	337-0284 A	1	TERMINAL BOARD
YB39	337-0284 A	1	TERMINAL BOARD
YB40	337-0284 A	1	TERMINAL BOARD
YB41	337-0284 A	1	TERMINAL BOARD
YB42	337-0284 A	1	TERMINAL BOARD
YB43	337-0284 A	1	TERMINAL BOARD
YB44	337-0284 A	1	TERMINAL BOARD
YB45	337-0284 A	1	TERMINAL BOARD
YB46	337-0284 A	1	TERMINAL BOARD
YB47	337-0284 A	1	TERMINAL BOARD
YB48	337-0284 A	1	TERMINAL BOARD
YB49	337-0284 A	1	TERMINAL BOARD
YB50	337-0284 A	1	TERMINAL BOARD
YB51	337-0284 A	1	TERMINAL BOARD
YB52	337-0284 A	1	TERMINAL BOARD
YB53	337-0284 A	1	TERMINAL BOARD
YB54	337-0284 A	1	TERMINAL BOARD
YB55	337-0284 A	1	TERMINAL BOARD
YB56	337-0284 A	1	TERMINAL BOARD
YB57	337-0284 A	1	TERMINAL BOARD
YB58	337-0284 A	1	TERMINAL BOARD
YB59	337-0284 A	1	TERMINAL BOARD
YB60	337-0284 A	1	TERMINAL BOARD
YB61	337-0284 A	1	TERMINAL BOARD
YB62	337-0284 A	1	TERMINAL BOARD
YB63	337-0284 A	1	TERMINAL BOARD
YB64	337-0284 A	1	TERMINAL BOARD
YB65	337-0284 A	1	TERMINAL BOARD
YB66	337-0284 A	1	TERMINAL BOARD
YB67	337-0284 A	1	TERMINAL BOARD
YB68	337-0284 A	1	TERMINAL BOARD
YB69	337-0284 A	1	TERMINAL BOARD
YB70	337-0284 A	1	TERMINAL BOARD
YB71	337-0284 A	1	TERMINAL BOARD
YB72	337-0284 A	1	TERMINAL BOARD
YB73	337-0284 A	1	TERMINAL BOARD
YB74	337-0284 A	1	TERMINAL BOARD
YB75	337-0284 A	1	TERMINAL BOARD
YB76	337-0284 A	1	TERMINAL BOARD
YB77	337-0284 A	1	TERMINAL BOARD
YB78	337-0284 A	1	TERMINAL BOARD
YB79	337-0284 A	1	TERMINAL BOARD
YB80	337-0284 A	1	TERMINAL BOARD
YB81	337-0284 A	1	TERMINAL BOARD
YB82	337-0284 A	1	TERMINAL BOARD
YB83	337-0284 A	1	TERMINAL BOARD
YB84	337-0284 A	1	TERMINAL BOARD
YB85	337-0284 A	1	TERMINAL BOARD
YB86	337-0284 A	1	TERMINAL BOARD
YB87	337-0284 A	1	TERMINAL BOARD
YB88	337-0284 A	1	TERMINAL BOARD
YB89	337-0284 A	1	TERMINAL BOARD
YB90	337-0284 A	1	TERMINAL BOARD
YB91	337-0284 A	1	TERMINAL BOARD
YB92	337-0284 A	1	TERMINAL BOARD
YB93	337-0284 A	1	TERMINAL BOARD
YB94	337-0284 A	1	TERMINAL BOARD
YB95	337-0284 A	1	TERMINAL BOARD
YB96	337-0284 A	1	TERMINAL BOARD
YB97	337-0284 A	1	TERMINAL BOARD
YB98	337-0284 A	1	TERMINAL BOARD
YB99	337-0284 A	1	TERMINAL BOARD
YB100	337-0284 A	1	TERMINAL BOARD

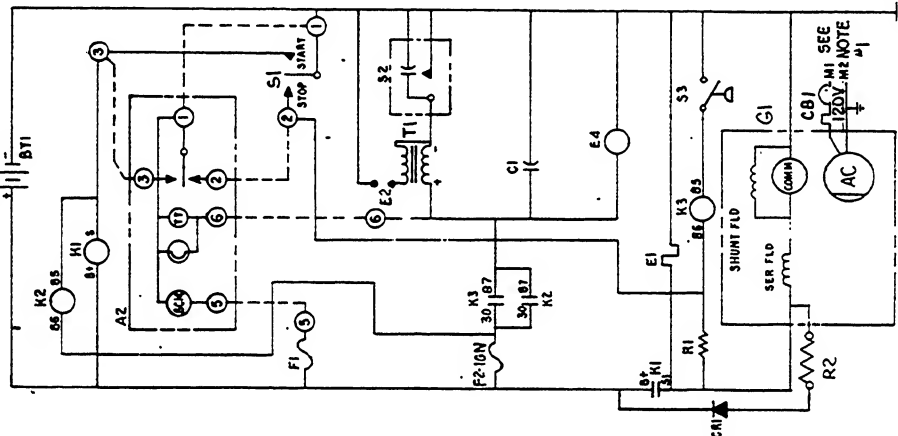
MORAL IN		DIVISION OF CHRYSLER CORPORATION Minneapolis, Minnesota	
-01 4.0BFA-1R/16019A		DATE 5-23-78 DAY 17 MONTH 02	
-02 5.0BFA-3CR/16019A		CONTROL - GEN SET	
6.5NH-3CR/16019K		(WIRING DIAGRAM)	
120V.	1PH	611-1138	611-1138
4 W	60 Hz	HUNTSVILLE	

611-1140

# WIRING DIAGRAM



# SCHEMATIC



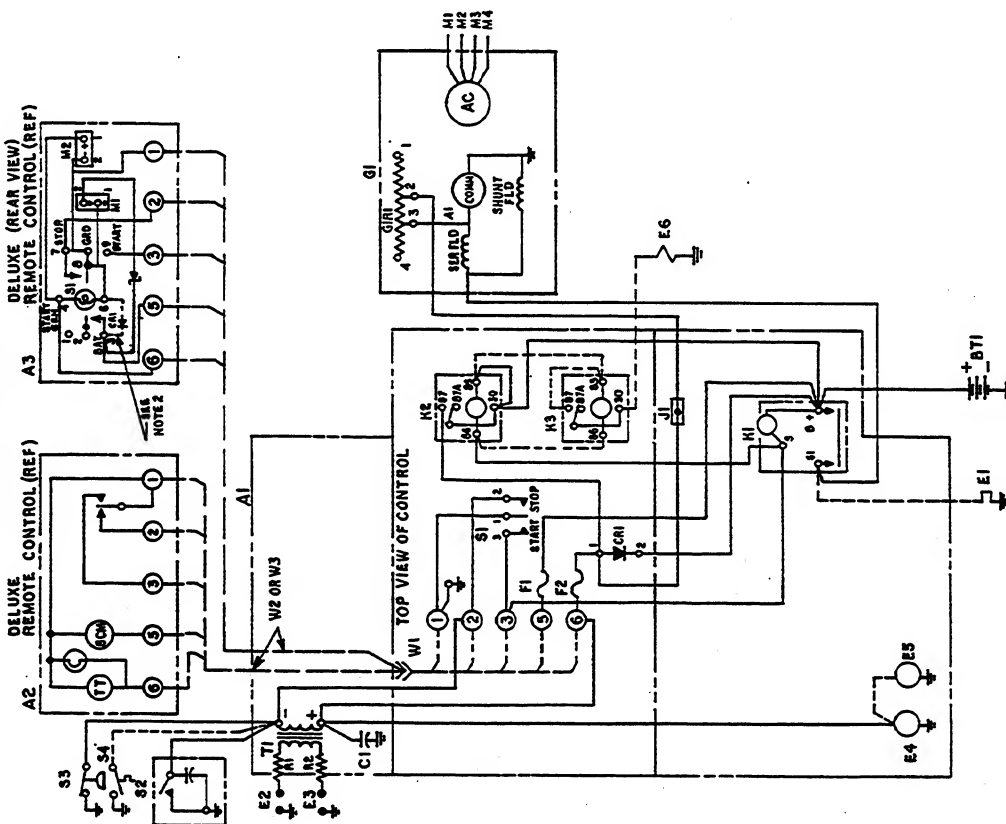
PARTS LIST		
REF DES	PART NO.	DESCRIPTION
A1	300-1984 C	CONTROL ASSY
ALL PART NOS LISTED BELOW ARE REF ONLY		
A2	300-0986 P	DELUXE REMOTE CONTROL
A3	300-0985 B	STANDARD REMOTE CONTROL
B1	312-0050 A	BATTERY 12V
C1	312-0050 A	CAPACITOR
C2	312-0050 A	RECEIVER (BATT. CHARGING)
C3	312-0050 A	30 AMP CIRCUIT BRK
E1	307-0294 C	CHOK - OHM
E2	307-0294 C	SPARK - PLUG
E3	307-0294 C	SOLENOID FUEL SHUT OFF
F1	321-0115 P	FUSE HOLDER
F2	321-0114 P	FUSE - 5 AMP 32V
G1	301-1498 B	GENERATOR
K1	301-1498 B	START SOLENOID
K2	301-1512 P	RELAY - CRANK IGNITION
K3	301-1512 P	RELAY - RUN IGNITION
R1	302-0725 P	RESISTOR - 172 ohm 5W
R2	353-0050	RESISTOR - 10 OHM 45W
S1	308-0363 A	SWITCH - START, STOP
S2	308-0363 A	SWITCH - BREAKER & CAP ASSY
T1	166-0278 C	COIL - IGNITION
TBI	332-0604 A	TERMINAL BLOCK
W1	96-3356 A	SILASCREEN - WD
W2	508-0200 A	BUSHING - TERMINAL
W3	318-1111 C	WIRING HARNESS (CONV. REMOTE)
W4	318-1080 C	WIRING HARNESS (CABLE REMOTE)
W5	318-1081 C	WIRING HARNESS (CABLE REMOTE CONTROL) (30 FEET LONG)

WHEN USED

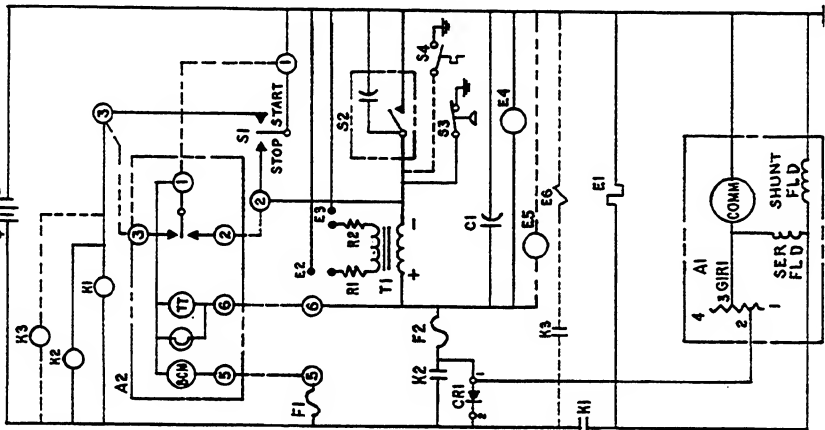
NOTES:  
1. M1 - BLACK, M2 - WHITE

9	B3 WAS 40-1-77	611-1140
A	WAS 149-1302	611-1140
DIVISION OF CHRYSLER CORPORATION Minneapolis, Minnesota		
DATE 9-6-77 BY JFM (WJ/JA) FOR ZZ		
CONTROL - GEN SET (WIRING DIAGRAM)		
MODEL NO.	9.0AW-1R/16017P	
VOLTAGE	120V	1 PH
WATTAGE	2 W	60 HZ
REV	1	611-1135
REV	1	611-1140
REV	1	C

## WIRING DIAGRAM



## SCHEMATIC

[illegible]

**NOTE:**  
1. REPLACES PC BOARD CONTROL (300-0859) FOR R.V.

2. REMOVE CR11 FROM 112.

3. REMOVE LEAD ASSY FROM HARNESS (338-1120 (D))

## RECONNECTION CHART

120V, 2W

120V, 2W

M1 M2 M3 M4

120V 120V

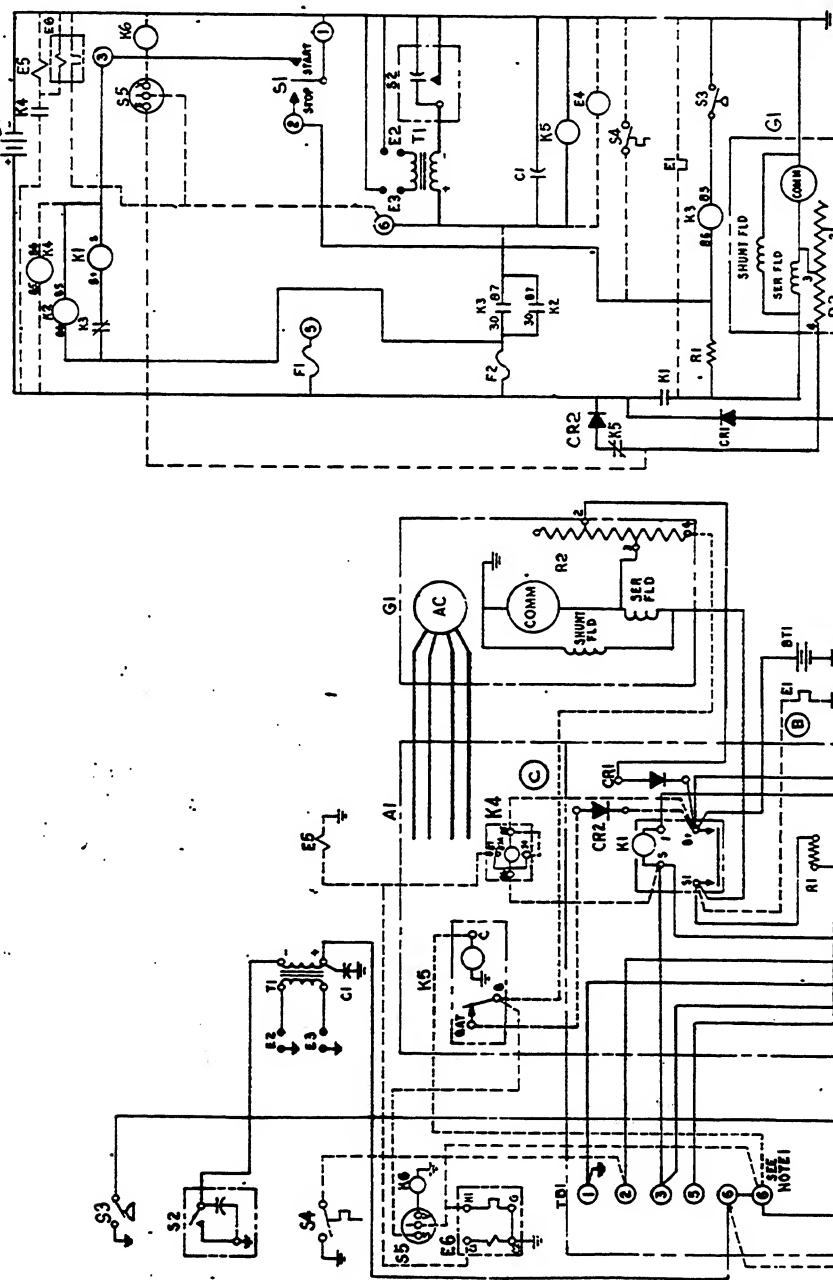
DECLASSIFIED	NOTE 2	DATE	BY
15	10-3-77	10-2-78	10-2-78
REVISION	DATE	BY	DATE
1	10-3-77	10-2-78	10-2-78
<div style="display: flex; justify-content: space-between;"> <div> <p>WAS 300-1595</p> <p>1</p> </div> <div> <p>DIVISION OF OHIO CORPORATION</p> <p>Minneapolis, Minnesota</p> </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div> <p>Original</p> <p>10-3-77</p> <p>10-2-78</p> </div> <div> <p>CONTROL - GEN SET</p> <p>(WIRING DIAGRAM)</p> </div> </div>			
<p>REPLA FROM</p> <p>611-114</p>		<p>SEE</p> <p>114</p>	
<p>SVILLE</p>		<p>C</p>	

TEST NO.	DATE	BY	MODEL NO.
-01			CCK & NH SPEC 12015 & UP
-02			CCK & NH SPEC 12014 & DOWN

611-1141

MONTSVILLE

## SCHEMATIC 98-3430



BASH NO	CHOME	MODEL	CONTROL ASST	FUEL PUMP	N5
-01	SHISON CHOME	NH	300-1820 (D)	ELECTRIC	YES
-02	ONAN	NH	300-1635 (D)	MECHANICAL	YES
-03	SHAGON-NATKO	MA	300-1699 (D)	ELECTRIC	YES
-04	ONAN	NH	300-1594 (D)	ELECTRIC	YES
-05	ONAN	NH	300-1707 (D)	NONE	YES
-06	ONAN-NATKO	CKK	300-1747 (D)	NONE	YES
-07	ONAN	NH	300-1794 (D)	ELECTRIC	NO
-08	NONE - NATKO	NH	300-1902 (D)	NONE	YES
-09	ONAN-NATKO	CKK	300-1925 (D)	ELECTRIC	YES
-10	ONAN	NH	300-1925 (D)	ELECTRIC	YES

RECONNECTION CHART 1PH 4W

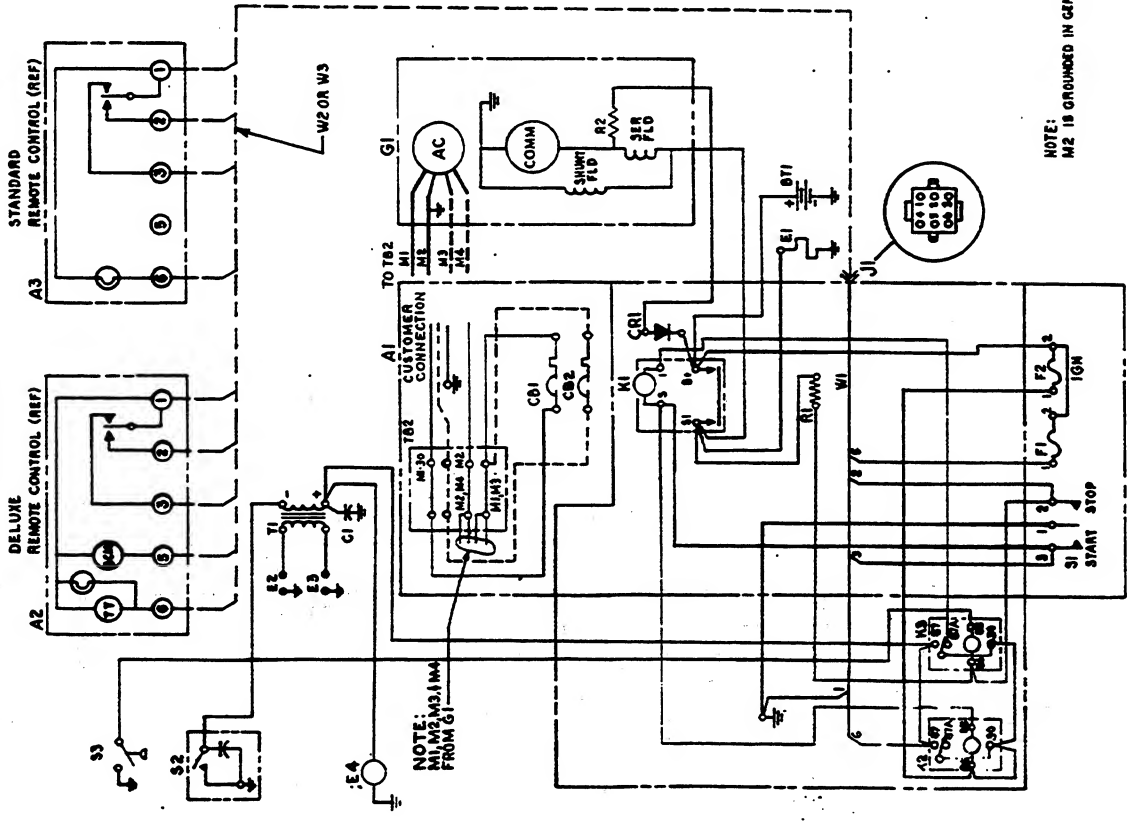
**NOTE:**

1. TBI-5 IS FORB. OR REMOTE BATTERY CONDITION. METER.  
TBI-6 IS FOR A REMOTE RUNNING TIME METER OR  
RUNNING LIGHT. C. AS TO JO JUMPER WAS RE-BL. KR 12/23/52

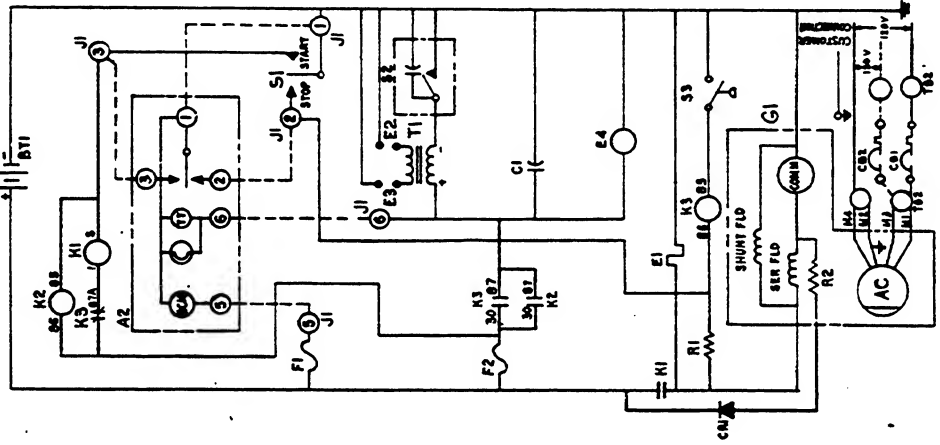
01	6.5NH-3CR/15000D	120/240 V 4 W	611-1139	611-1142	CONTROL - GEN SET (WIRING DIAGRAM)	W/HX CAR
-02	6.5 NH-3CR/1DL					
-03	4.0 IE-06CK/3CR/10000 U					
-04	4.0 IE-06CK/3CR/10000 U					
-05	6.5 NH-3CR/15001 R					
-06	6.5 NH-3CR/15001 R					
-07	6.5 NH-3CR/15001 R					
-08	4.0 CK-3CR/21378U					
-09	4.0 CK-3CR/21378U					
-10	4.0 CK-3CR/21378U					
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-97	4.0 CK-3CR/21378U					
-98	4.0 CK-3CR/21378U					
-99	4.0 CK-3CR/21378U					
-100	4.0 CK-3CR/21378U					

611-1146

WIRING DIAGRAM



SCHEMATIC



REF DES	PART NO.	QTY	DESCRIPTION
A1	300-1764 D	1	CONTROL ASSY (COT) 30 AMP
B1	300-1765 D	1	CONTROL ASSY (-02) 10/20/30 AMP
D1	300-1766 D	1	CONTROL ASSY (-03) 30 AMP
ALL PART NOS LISTED BELOW ARE REF ONLY			
A2	300-0986 B	1	DELUXE REMOTE CONTROL
A3	300-0985 B	1	STANDARD REMOTE CONTROL
B1	300-0985 B	1	BATTERY - 12V
C1	312-0050 A	1	CAPACITOR
CH1	357-0050 P	1	RECTIFIER (BATT. CHARGING)
E1	1	1	CHOKE - OHM
E2	2	2	SPARK - PLUG
E4	1	1	FUEL PUMP
F1	2	2	FUSE HOLDER
F2	321-0115 P	2	FUSE - 5 AMP 32V
F3	321-0174 P	2	FUSE - 5 AMP 32V
G1	307-1617 B	1	GENERATOR
K1	307-1617 B	1	START SOLENOID
K2	307-1575 P	1	RELAY - CHAM IGNITION
K3	307-1575 P	1	RELAY - RUN IGNITION
R1	304-0431 P	1	RESISTOR - 150 OHM 5W
R2	1	1	RESISTOR
J1	333-0440 C	1	SOCKET PLUG-REMOTE
S1	308-0393 A	1	SWITCH - START STOP
S2	308-0393 A	1	SWITCH - BREAKER & CAP ASSY
S3	1	1	SWITCH - LOW OIL PRESS
T1	188-0843 C	1	COIL - IGNITION
T82	332-0254 A	1	TERMINAL BOARD
98-3717 B	1	1	SILKSCREEN - SCHEMATIC
CB1, CB2	320-0544 C	1	CIRCUIT BREAKER 30 AMP (4-02)
CB3	320-0692 C	1	CIRCUIT BREAKER 20 AMP (02)
W1	338-1078 C	1	WIRING HARNESS (CONH-REMOTE)
W2	338-1090 C	1	WIRING HARNESS (CABLE-REMOTE CONTROL) (10 FEET LONG)
W3	338-1091 C	1	WIRING HARNESS (CABLE-REMOTE CONTROL) (30 FEET LONG)

• WHEN USED

THIS DOCUMENT SUBJECT TO FOLLOWING STANDARDS/CODES  
 MIL-STD-883C  
 TO MAINTAIN THIS COMPLIANCE, NO CHANGES OR  
 DEVIATIONS TO BE MADE W/O APPROVAL OF:  
 CORP & SIBS ENR. ☐ PUP ☐ ROLD  
 0-000000 0-000000 / F-33-79  
 DATE

4.0 BFA-IR/16000/B	120V	1PH	60 Hz
5.0 BGA-3CR/16000/B	120V	1PH	60 Hz
6.5 NH-3CR/16000/M	120/240V	1PH	4 W 60 Hz

5.0 BGA, 6.5 NH RECONNECTION CHART

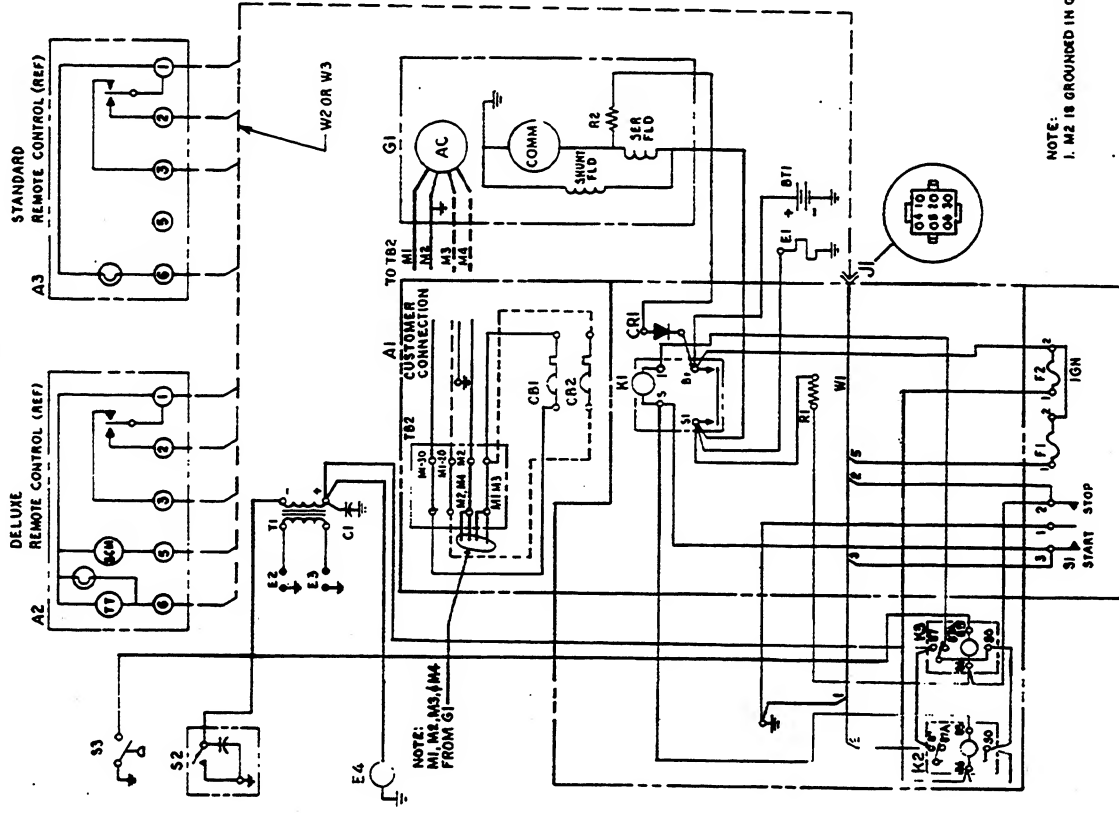
120V, 2W	M1 M2 M3 M4
120V, 3W	M1 M2 M3 M4
120V, 2W	M1 M2 M3 M4

A	ADD STD CODES LABEL	611-1146
Q	QTY	1
U	UNIT	MINNAPOLIS, MINNAPOLIS
9-22-78	DATE	611-1146
611-1135	DATE	611-1146

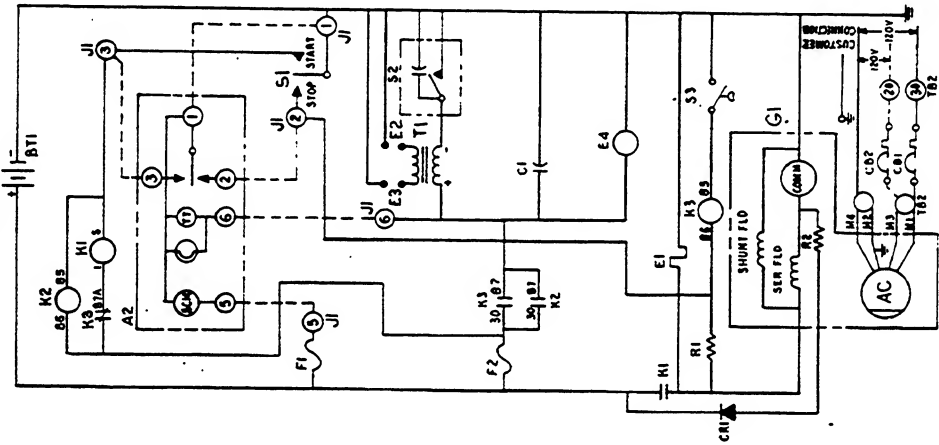
HUNTSVILLE

611-1147

WIRING DIAGRAM



SCHEMATIC

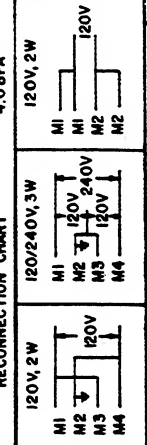


PARTS LIST			DESCRIPTION
REF DES	PART NO	QTY	
A1	300-1747 D	1	CONTROL ASSY - O1
	300-1748 D	1	CONTROL ASSY - O2
ALL PART NOS LISTED BELOW ARE REF ONLY			
A2	300-0986 B	1	DELUXE REMOTE CONTROL
A3	300-0985 B	1	STANDARD REMOTE CONTROL
B1	312-0050 A	1	BATTERY - 12V
C1	312-0050 A	1	CAPACITOR
C2	320-0444 C	1	CIRCUIT BREAKER 30 AMP (-O1, -O2)
C3	320-0442 A	1	CIRCUIT BREAKER 30 AMP (-O2)
C4	327-0030 P	1	RECTIFIER (BATT. CHARGING)
E1	327-0030 P	1	CHOKER - ONAN
E2, 3	327-0030 P	2	SPARK - PLUG
E4	327-0030 P	1	FUEL PUMP
F1, 2	321-0115 P	2	FUSE HOLDER
	321-0114 P	2	FUSE - 5 AMP 32V
G1	307-1617 B	1	GENERATOR
K1	307-1617 B	1	START SOLENOID
K2	307-1515 P	1	RELAY - CHARGE IGNITION
K3	307-1515 P	1	RELAY - RUN IGNITION
R1	304-0431 P	1	RESISTOR - 150 OHM 5W
R2	304-0431 P	1	RESISTOR
J1	323-0440 C	1	SOCKET PLUG REMOTE
S1	308-0383 A	1	SWITCH - START, STOP
S2	308-0383 A	1	SWITCH - BREAKER & CAP ASSY
S3	166-0843 C	1	SWITCH - LOW OIL PRESS
T1	166-0843 C	1	COIL - IGNITION
T2	90-3717 B	1	SILVERGREEN - SCHEMATIC
	332-0234 A	1	TERMINAL BOARD

• 8NH 1510

NOTE:  
1. M2 IS GROUND IN GENERATOR

RECONNECTION CHART

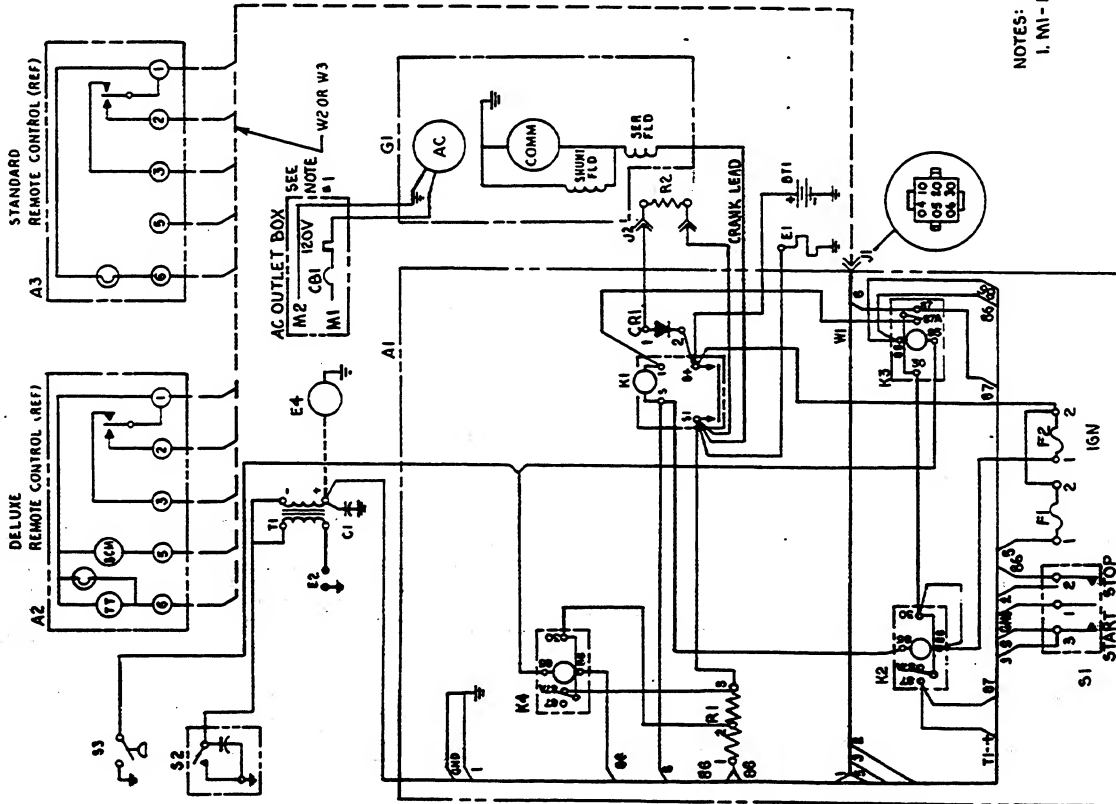


THIS DOCUMENT SUBJECT TO FOLLOWING LIMITATIONS/NOTES:  
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MODEL NO  
-O1 4.0BFA-1R/16019/B  
-O2 5.0BGA-3C/16019/B  
6.5NH 3C-R/16019/M  
120V, 1PH  
4W 60 Hz  
HUNTSVILLE  
611-1147

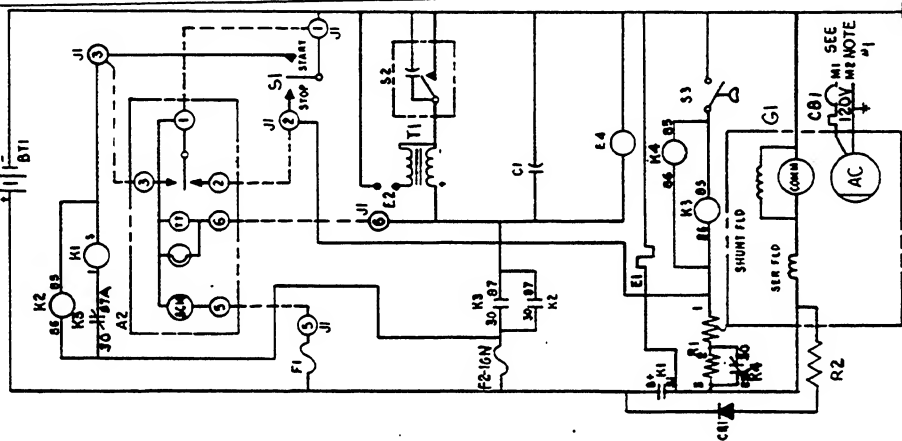
ADDITIONAL STDCODES LABEL  
DIVISION OF ONAN CORPORATION  
Huntsville, Tennessee  
9-22-78  
CONTROL - GEN SET  
(WIRING DIAGRAM)

WIRING DIAGRAM



NOTES:  
1. M1 - BLACK, M2 - WHITE

SCHEMATIC



PARTS LIST

REF DES	PART NO	QTY	DESCRIPTION
A1	300-1781	C 1	CONTROL ASSY
ALL PART NOS LISTED BELOW ARE REF ONLY			
A2	300-0986	P 1	DELUXE REMOTE CONTROL
A3	300-0985	B 1	STANDARD REMOTE CONTROL
B11	317-0050	A 1	BATTERY - 12V
C1	357-0050	P 1	RECEPTOR (BATT. CHARGING)
C81	320-0644	C 1	30AMP CIRCUIT BRK
E1	307-1302	A 1	SOLENOID FUEL SHUT OFF
F1	321-0175	P 2	FUSE HOLDER
F2	321-0174	P 2	FUSE - 3 AMP 37V
G1	307-1817	B 1	START SOLENOID
K1	307-1575	P 1	RELAY - CRANK IGNITION
K2	307-1575	P 1	RELAY - RUN IGNITION
K3	307-1878	P 1	RELAY - IGNITION
R1	304-0735	P 1	RESISTOR - 175 OHM 5 W
R2	303-0086	P 1	RESISTOR - 10 OHM 40 W
S1	308-0393	A 1	SWITCH - START STOP
S2	308-0393	A 1	SWITCH - BREAKER & CAP ASSY
S3	166-0278	C 1	SWITCH - LUB OIL PRESS
T1	166-0278	C 1	COIL - IGNITION
J1	98-3769	B 1	SILKSCREEN - SCHEMATIC
J2	323-0440	C 1	SOCKET PLUG - REMOTE
J3	508-0200	A 1	BUSHING - TERMINAL
W1	338-1111	C 1	WIRING HARNESS (CRANK-REMOTE)
W2	338-1090	C 1	WIRING HARNESS (CABLE-REMOTE)
W3	338-1081	C 1	WIRING HARNESS (CABLE-REMOTE)

\*WHEN USED

THIS DOCUMENT SUBJECT TO FOLLOWING STANDARD/COPIES

1. M1 - BLACK, M2 - WHITE

TO MAINTAIN THE COMPANY'S REPUTATION OR TO MAINTAIN THE COMPANY'S REPUTATION OR TO MAINTAIN THE COMPANY'S REPUTATION

COPIES & STOS ENR. ☐ SUPP ☐ DUP ☐ HOD

SIGNED *RMB* DATE *7-3-22*

3640 B ADD WHEN USED TO E4

1 100 000 1111

10-12-78

3.0AJ-1R/160175

120V 1PH 60 Hz

2W

611-1148

611-1148

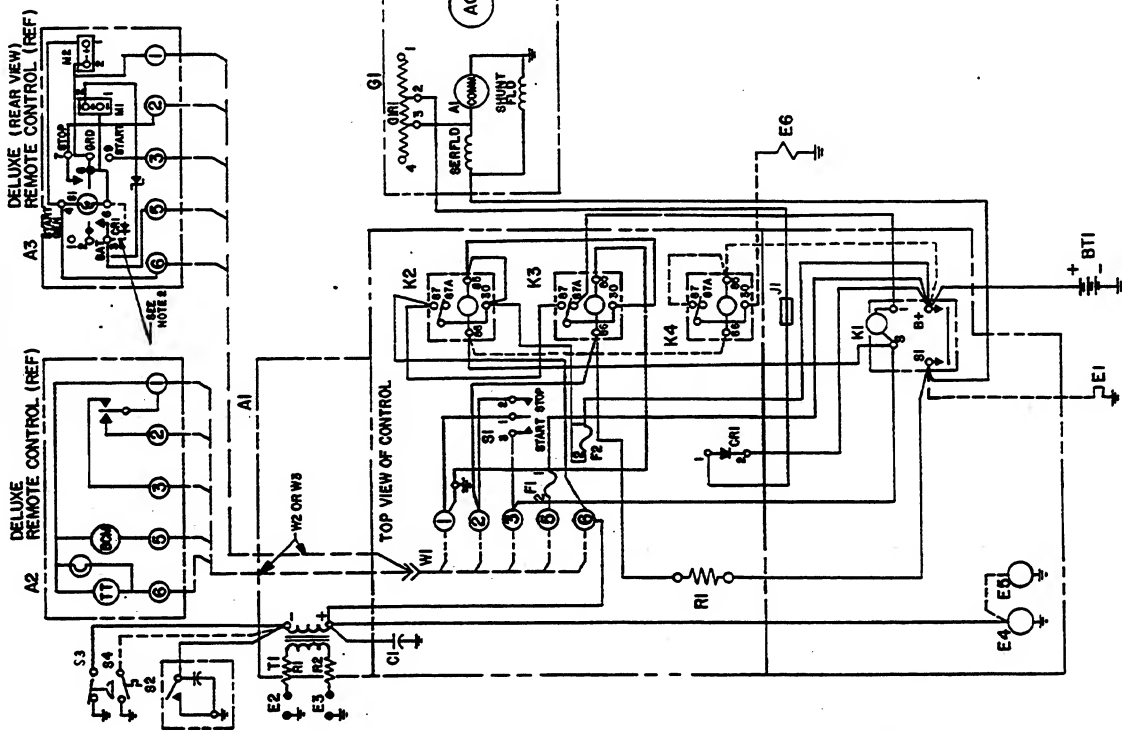
611-1148



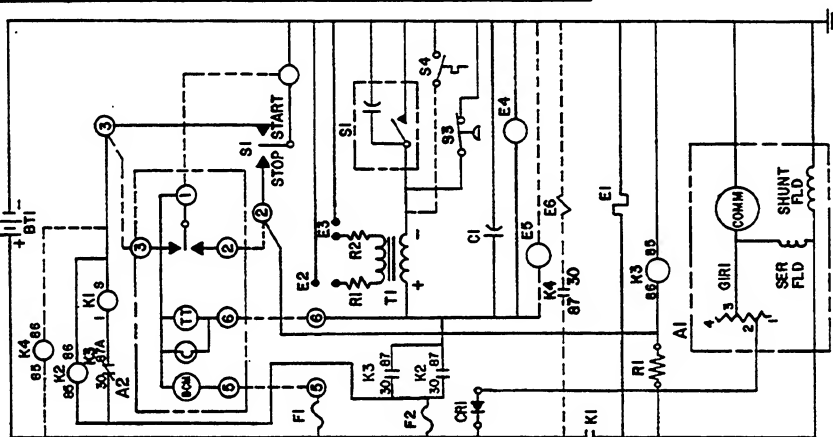




WIRING DIAGRAM



SCHEMATIC



## NOTES:

1. REPLACES PC BOARD CONTROL (300-0859) FOR RV.
2. REMOVE CRI FROM I & 2 AND JUMPER FROM I TO GND (FROM CRI) IN GEN END BELL
3. REMOVE 336-3280 LEAD ASSY FROM HARNESS (336-1337 (D)).

## PARTS LIST

REF DES	PART NO.	QTY	DESCRIPTION
A1	300-2028	D	CONTROL ASSY - 01 - 02
K4	307-1872	A	RELAY & LEAD ASSY - 02 (SEE NOTE 3)
ALL PART NOS BELOW ARE REF ONLY			
A2	300-0886	B	DELUXE REMOTE CONTROL
A3	300-0843	B	DELUXE REMOTE CONTROL
B1	BATTERY 12V		
C1	357-0030	A	RECEPTOR
E2, E3			
E4			
E5			
E6			
F1, F2	321-0174	-	FUSE (5 AMP, 32V)
G1			GENERATOR
K1	332-1506	-	RELAY - WINDOW
K2	307-1817	P	SOLENOID - START
K3	307-1575	P	RELAY - IGNITION
K4	307-1575	P	RELAY - IGNITION
T1-R1			LEAD ASSY - HI TEN
T1-R1			LEAD ASSY - HI TEN
R1	332-0181	P	RESISTOR - 100 OHM
S1			SWITCH - START
S2			BREAKER & CAP ASSY
S3			SWITCH - LOW OIL PRESS
S4			SWITCH - HIGH AIR TEMP
T1			COIL - IGNITION
E1			CHOKE - ONAN - 01

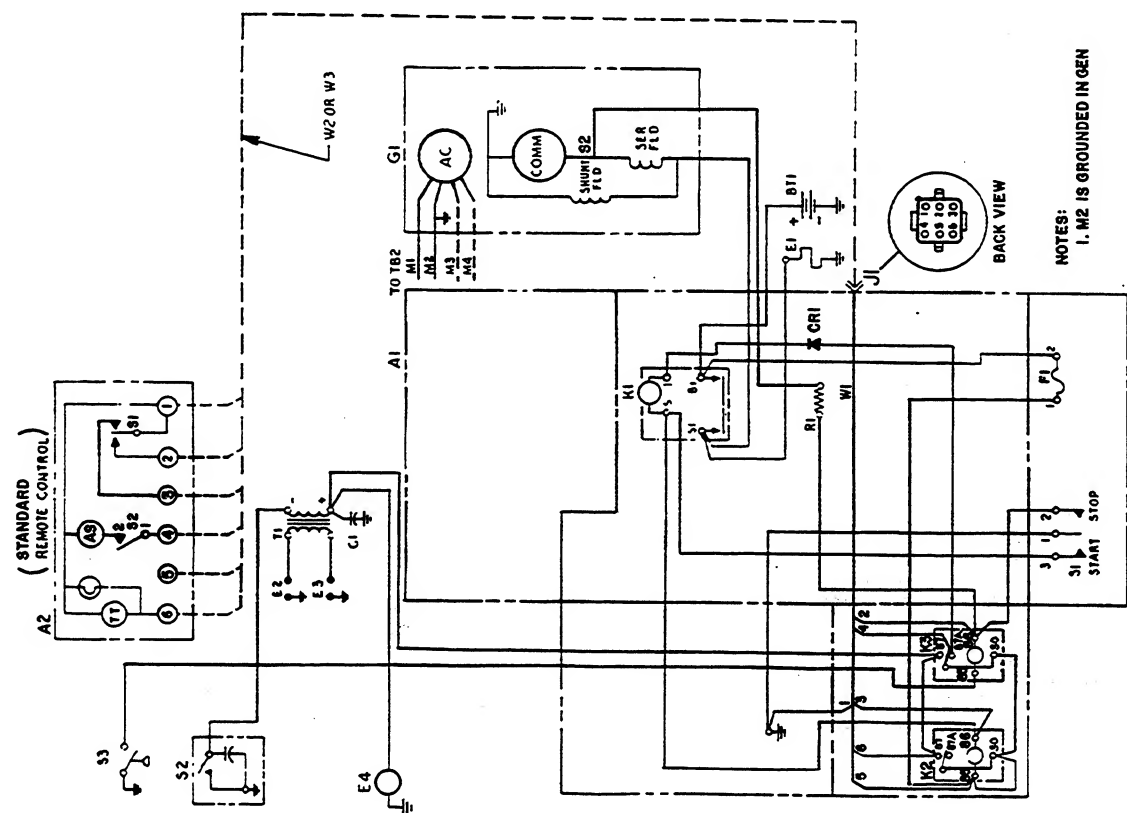
611-1157

C

ITEM	REV	DATE	BY	QTY	DESCRIPTION OR MATERIAL
8423	B				TBI-2 TO K3-B6 WAS TBI-2 TO T1-
3943	A				K1-B4 TO P4-85 WAS K3-30 TO P4-85
1319	-				RLSE FOR PROD
ER	LET				
A DIVISION OF OHAN CORPORATION					
Huntsville, Alabama					
CONTROL - GEN SET					
(WIRING DIAGRAM)					
611-1157					
HUNTSVILLE					

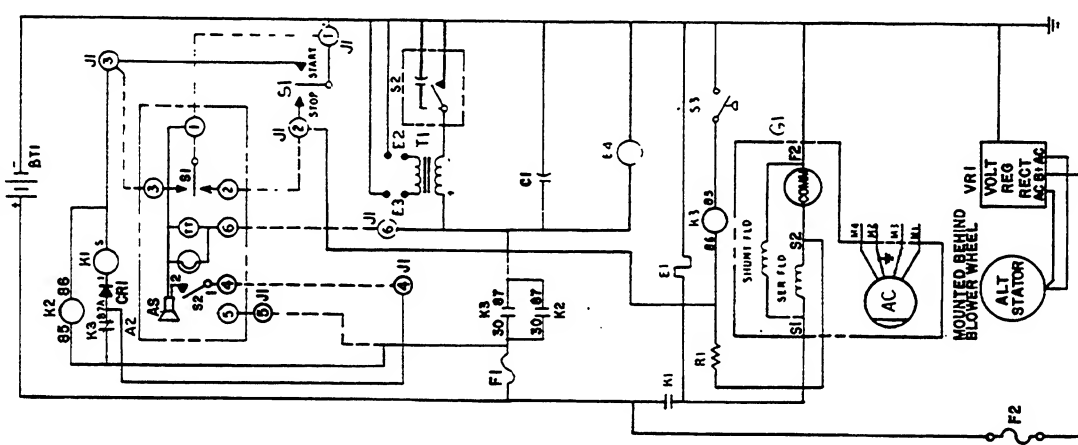
611-1160

WIRING DIAGRAM



NOTES:  
1. M2 IS GROUNDED IN GEN

SCHEMATIC



REF DES	PART NO	QTY	DESCRIPTION
31	300-2169	1	CONTROL ASST - OI
ALL PART NOS LISTED BELOW ARE REF ONLY			
AE	300-2162	1	STANDARD REMOTE CONTROL
B1	312-0050	1	BATTERY - 12V
C1	312-0050	1	CAPACITOR
CRI	357-0030	1	RECTIFIER-SILICON
E1	307-1896	1	CHOKER - ONAN
E2	307-1896	1	SPARK - PLUG
E4	307-1896	1	FUEL PUMP
F1	321-0176	1	FUSE - 10 AMP, 32V
F2	321-0146	1	IN LINE FUSE, 30 AMP
G1	307-1896	1	GENERATOR
R1	307-1896	1	RELAY-START SOLENOID
R2	307-1896	1	RELAY-STOP
R3	304-0161	1	RELAY-STOP, 100 AMP, 32V
J1	323-1221	1	CONNECTOR-GAP
S1	308-0181	1	STOP
S2	308-0181	1	STOP
S3	308-0181	1	STOP
T1	166-0643	1	ON 211 PRESS
VRI	338-1454	1	REGULATOR-RECTIFIER-VOLTAGE

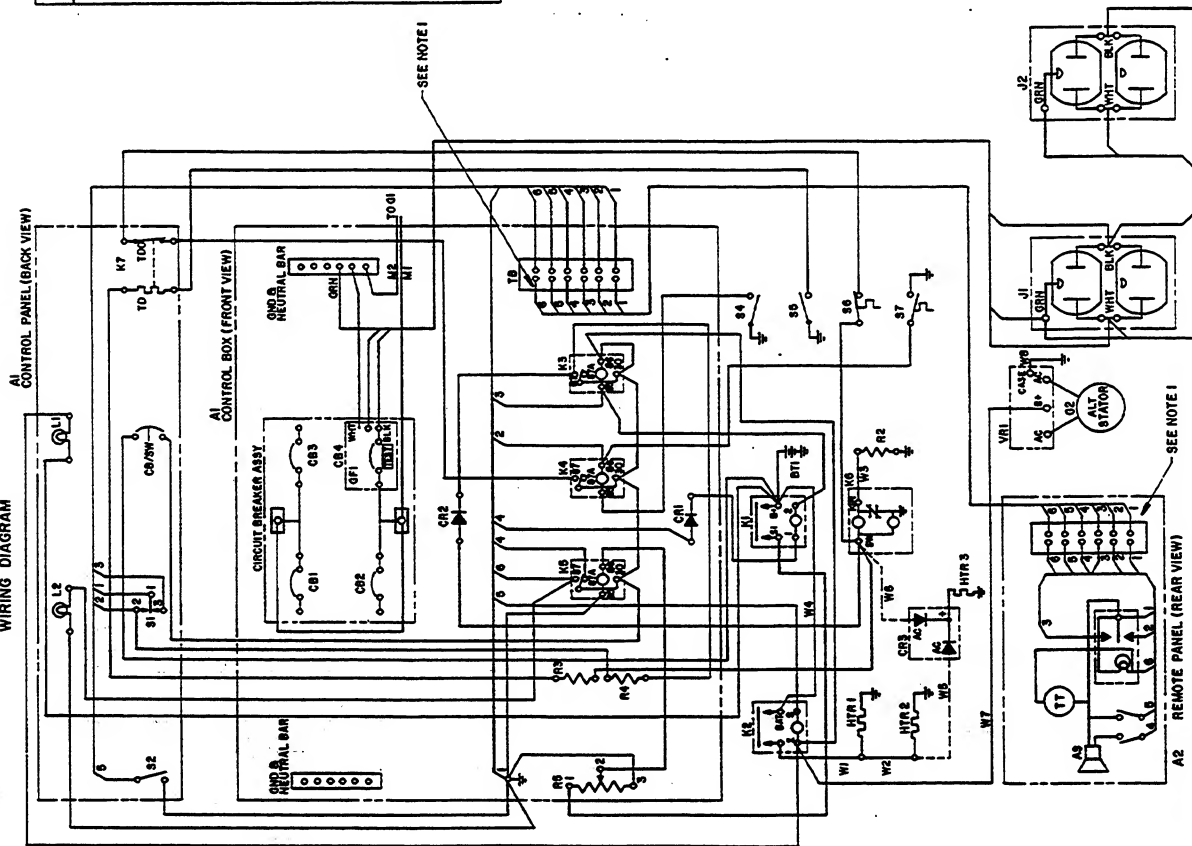
611-1160

6374	B	WAS RI TO KI-SI	01/14/42
4160	A	ADD CRI (357-0030)	7/12/42
3787	ER	RESE FOR PROD	7/12/42

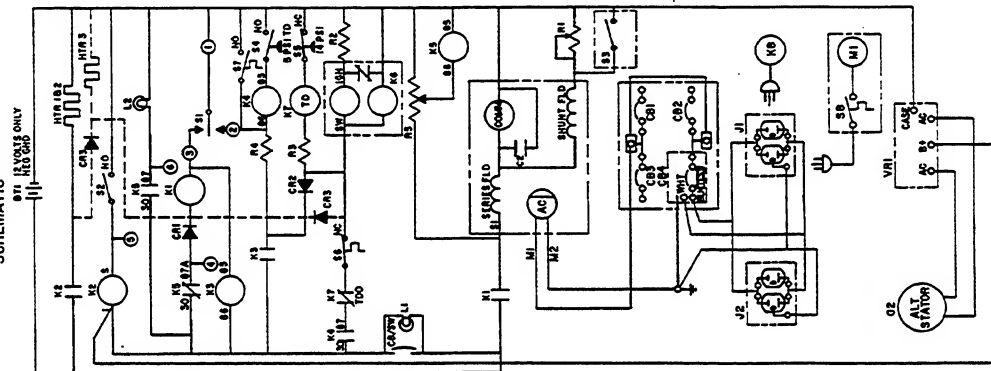
MODEL NO	4.0 BFA-IR/23000C
CONTROL	6.0 NH-5CR/23000P
VOLTS	120V
PHASE	1 PH
WATTAGE	4 W
FREQUENCY	60 HZ
MANUFACTURER	MINNESOTA MINERALS
DATE	611-1160
LOCATION	HUNTSVILLE

RECONNECTION CHART	4.0 BFA
6.5NH	120V, 2W
120V, 2W	120V, 2W
120V, 2W	120V, 2W
120V, 2W	120V, 2W

WIRING DIAGRAM



SCHEMATIC



## NOTES:

1. COLOR CODE WHEN USED W/50 CABLE, OMN 334-2116

2. WHITE - GROUND

3. GREEN - START

4. ORANGE - ALARM

5. BLUE - PREHEAT

6. RED - STOP

7. YELLOW - STOP

8. PURPLE - STOP

9. BROWN - STOP

10. BLACK - STOP

11. WHITE - STOP

12. RED - STOP

13. YELLOW - STOP

14. PURPLE - STOP

15. BROWN - STOP

16. BLACK - STOP

17. WHITE - STOP

18. RED - STOP

19. YELLOW - STOP

20. PURPLE - STOP

21. BROWN - STOP

22. BLACK - STOP

23. WHITE - STOP

24. RED - STOP

25. YELLOW - STOP

26. PURPLE - STOP

27. BROWN - STOP

28. BLACK - STOP

29. WHITE - STOP

30. RED - STOP

31. YELLOW - STOP

32. PURPLE - STOP

33. BROWN - STOP

34. BLACK - STOP

35. WHITE - STOP

36. RED - STOP

37. YELLOW - STOP

38. PURPLE - STOP

39. BROWN - STOP

40. BLACK - STOP

41. WHITE - STOP

42. RED - STOP

43. YELLOW - STOP

44. PURPLE - STOP

45. BROWN - STOP

46. BLACK - STOP

47. WHITE - STOP

48. RED - STOP

49. YELLOW - STOP

50. PURPLE - STOP

51. BROWN - STOP

52. BLACK - STOP

53. WHITE - STOP

54. RED - STOP

55. YELLOW - STOP

56. PURPLE - STOP

57. BROWN - STOP

58. BLACK - STOP

59. WHITE - STOP

60. RED - STOP

61. YELLOW - STOP

62. PURPLE - STOP

63. BROWN - STOP

64. BLACK - STOP

65. WHITE - STOP

66. RED - STOP

67. YELLOW - STOP

68. PURPLE - STOP

69. BROWN - STOP

70. BLACK - STOP

611-119

R.W.

REF DES

11-4-91

Onan

CONTROL-GENSET (WD)

30 RDJA-AUX

611-1163

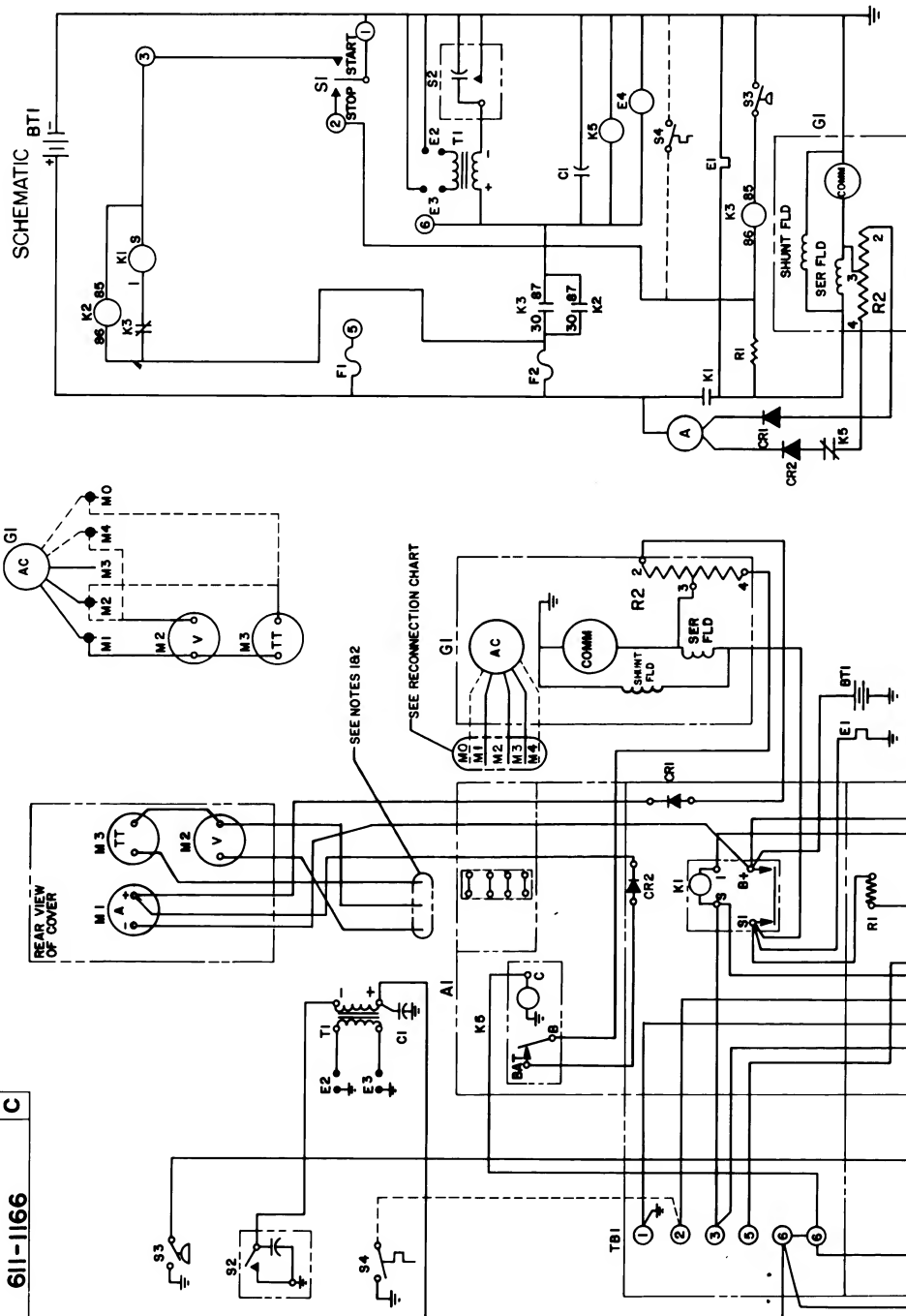
D



## SCHEMATIC BT1

REF DES	PART NO.	QTY	DESCRIPTION
A1	300-2749 D	1	CONTROL ASSY -OI
ALL PARTS LISTED BELOW ARE REF ONLY			
BT1			
C1	312-0050 A	1	BATTERY - 12 VOLT
CRI, 2	357-0030 P	2	RECTIFIER (BATT CHARGING)
E1			CHOKE - ONAN
E2, 3		2	SPARK - PLUG
E4	149-1547 B	1	FUEL PUMP (OR FUEL SOLENOID)
F1, 2	391-0175 P	2	FUSE HOLDER
	321-0174	2	FUSE - 5 AMP 32 VOLT
G1			GENERATOR
K1	307-1617 B	1	START SOLENOID
K2	307-1675 P	1	RELAY - CRANK IGNITION
K3	307-1675 P	1	RELAY - RUN IGNITION
R1	332-0161 P	1	RESISTOR - 100 ohm 5W
R2			RESISTOR
S1	308-0383 A	1	RELAY - CHARGE
S2			SWITCH - START STOP
S3			SWITCH - BREAKER & CAP ASSY
S4			SWITCH - LOW OIL PRESS
T1	166-0643 C	1	COIL - IGNITION
T81	332-0699 A	1	TERMINAL - BLOCK
S4			SWITCH HIGH AIR TEMP (WHEN USED)
M1	302-0058 A	1	AMMETER - DC
M2	302-0051 P	1	AC-VOLTMETER
M3	302-0787 A	1	METER - TIME TOTALIZING
	98-5010 B	1	SILKSCREEN - WIRING DIAG

611-1166



SEE NOTES 1&amp;2

SEE RECONNECTION CHART

## NOTES:

1. CONNECT RUNNING TIME METER TO LEADS M1 & M2 FOR 3CR GEN & TO LEADS M1 & M0 FOR 5DR GEN

2. CONNECT VOLTMETER TO LEADS M1 & M4 FOR 3CR GEN & TO LEADS M1 & M2 FOR 5DR GEN

3. VOLTMETER IS INOPERATIVE ON 120V, 2W CONNECTIONS  
RUNNING TIME METER IS INOPERATIVE ON 240V, 2W CONNECTIONS  
# GROUND AC LEAD

VOLTAGE CODE

M1 3CR20/240V, 1PH

M2 M1

M3 M2

M4 M3

M1 5DR 120/240V, 3PH

M2 M1

M3 M2

M4 M3

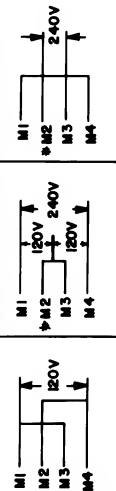
BEARING

END

COMM

END

RECONNECTION CHART 1PH 4W (SEE NOTE 3)



TOLERANCES UNLESS OTHERWISE SPECIFIED	INCH	MILL
1. ± .01	1. ± .01	1. ± .01
2. ± .01	2. ± .01	2. ± .01
3. ± .01	3. ± .01	3. ± .01
4. ± .01	4. ± .01	4. ± .01
5. ± .01	5. ± .01	5. ± .01
6. ± .01	6. ± .01	6. ± .01
7. ± .01	7. ± .01	7. ± .01
8. ± .01	8. ± .01	8. ± .01
9. ± .01	9. ± .01	9. ± .01
10. ± .01	10. ± .01	10. ± .01
11. ± .01	11. ± .01	11. ± .01
12. ± .01	12. ± .01	12. ± .01
13. ± .01	13. ± .01	13. ± .01
14. ± .01	14. ± .01	14. ± .01
15. ± .01	15. ± .01	15. ± .01
16. ± .01	16. ± .01	16. ± .01
17. ± .01	17. ± .01	17. ± .01
18. ± .01	18. ± .01	18. ± .01
19. ± .01	19. ± .01	19. ± .01
20. ± .01	20. ± .01	20. ± .01
21. ± .01	21. ± .01	21. ± .01
22. ± .01	22. ± .01	22. ± .01
23. ± .01	23. ± .01	23. ± .01
24. ± .01	24. ± .01	24. ± .01
25. ± .01	25. ± .01	25. ± .01
26. ± .01	26. ± .01	26. ± .01
27. ± .01	27. ± .01	27. ± .01
28. ± .01	28. ± .01	28. ± .01
29. ± .01	29. ± .01	29. ± .01
30. ± .01	30. ± .01	30. ± .01
31. ± .01	31. ± .01	31. ± .01
32. ± .01	32. ± .01	32. ± .01
33. ± .01	33. ± .01	33. ± .01
34. ± .01	34. ± .01	34. ± .01
35. ± .01	35. ± .01	35. ± .01
36. ± .01	36. ± .01	36. ± .01
37. ± .01	37. ± .01	37. ± .01
38. ± .01	38. ± .01	38. ± .01
39. ± .01	39. ± .01	39. ± .01
40. ± .01	40. ± .01	40. ± .01
41. ± .01	41. ± .01	41. ± .01
42. ± .01	42. ± .01	42. ± .01
43. ± .01	43. ± .01	43. ± .01
44. ± .01	44. ± .01	44. ± .01
45. ± .01	45. ± .01	45. ± .01
46. ± .01	46. ± .01	46. ± .01
47. ± .01	47. ± .01	47. ± .01
48. ± .01	48. ± .01	48. ± .01
49. ± .01	49. ± .01	49. ± .01
50. ± .01	50. ± .01	50. ± .01
51. ± .01	51. ± .01	51. ± .01
52. ± .01	52. ± .01	52. ± .01
53. ± .01	53. ± .01	53. ± .01
54. ± .01	54. ± .01	54. ± .01
55. ± .01	55. ± .01	55. ± .01
56. ± .01	56. ± .01	56. ± .01
57. ± .01	57. ± .01	57. ± .01
58. ± .01	58. ± .01	58. ± .01
59. ± .01	59. ± .01	59. ± .01
60. ± .01	60. ± .01	60. ± .01
61. ± .01	61. ± .01	61. ± .01
62. ± .01	62. ± .01	62. ± .01
63. ± .01	63. ± .01	63. ± .01
64. ± .01	64. ± .01	64. ± .01
65. ± .01	65. ± .01	65. ± .01
66. ± .01	66. ± .01	66. ± .01
67. ± .01	67. ± .01	67. ± .01
68. ± .01	68. ± .01	68. ± .01
69. ± .01	69. ± .01	69. ± .01
70. ± .01	70. ± .01	70. ± .01
71. ± .01	71. ± .01	71. ± .01
72. ± .01	72. ± .01	72. ± .01
73. ± .01	73. ± .01	73. ± .01
74. ± .01	74. ± .01	74. ± .01
75. ± .01	75. ± .01	75. ± .01
76. ± .01	76. ± .01	76. ± .01
77. ± .01	77. ± .01	77. ± .01
78. ± .01	78. ± .01	78. ± .01
79. ± .01	79. ± .01	79. ± .01
80. ± .01	80. ± .01	80. ± .01
81. ± .01	81. ± .01	81. ± .01
82. ± .01	82. ± .01	82. ± .01
83. ± .01	83. ± .01	83. ± .01
84. ± .01	84. ± .01	84. ± .01
85. ± .01	85. ± .01	85. ± .01
86. ± .01	86. ± .01	86. ± .01
87. ± .01	87. ± .01	87. ± .01
88. ± .01	88. ± .01	88. ± .01
89. ± .01	89. ± .01	89. ± .01
90. ± .01	90. ± .01	90. ± .01
91. ± .01	91. ± .01	91. ± .01
92. ± .01	92. ± .01	92. ± .01
93. ± .01	93. ± .01	93. ± .01
94. ± .01	94. ± .01	94. ± .01
95. ± .01	95. ± .01	95. ± .01
96. ± .01	96. ± .01	96. ± .01
97. ± .01	97. ± .01	97. ± .01
98. ± .01	98. ± .01	98. ± .01
99. ± .01	99. ± .01	99. ± .01
100. ± .01	100. ± .01	100. ± .01

Onan Corporation  
Minneapolis, Minnesota  
**CONTROL - GEN SET  
(WIRING DIAGRAM)**

6.5NH-5DR/10000P  
611-1166

DATE  
INITIAL  
JC  
11-2-82  
1-13-83  
1-6-83  
1-6-83

991-1166

25801 C 1 FUEL PUMP WAS 149-1542  
23772 B 2 KI-1 WAS KI-B+  
23772 B 1 LEAD CR2 WAS TO M1 -  
21306 - RISE FOR PROD

DATE  
INITIAL  
JC  
11-2-82  
1-13-83  
1-6-83  
1-6-83

991-1166

25801 C 1 FUEL PUMP WAS 149-1542  
23772 B 2 KI-1 WAS KI-B+  
23772 B 1 LEAD CR2 WAS TO M1 -  
21306 - RISE FOR PROD

DATE  
INITIAL  
JC  
11-2-82  
1-13-83  
1-6-83  
1-6-83

991-1166

25801 C 1 FUEL PUMP WAS 149-1542  
23772 B 2 KI-1 WAS KI-B+  
23772 B 1 LEAD CR2 WAS TO M1 -  
21306 - RISE FOR PROD

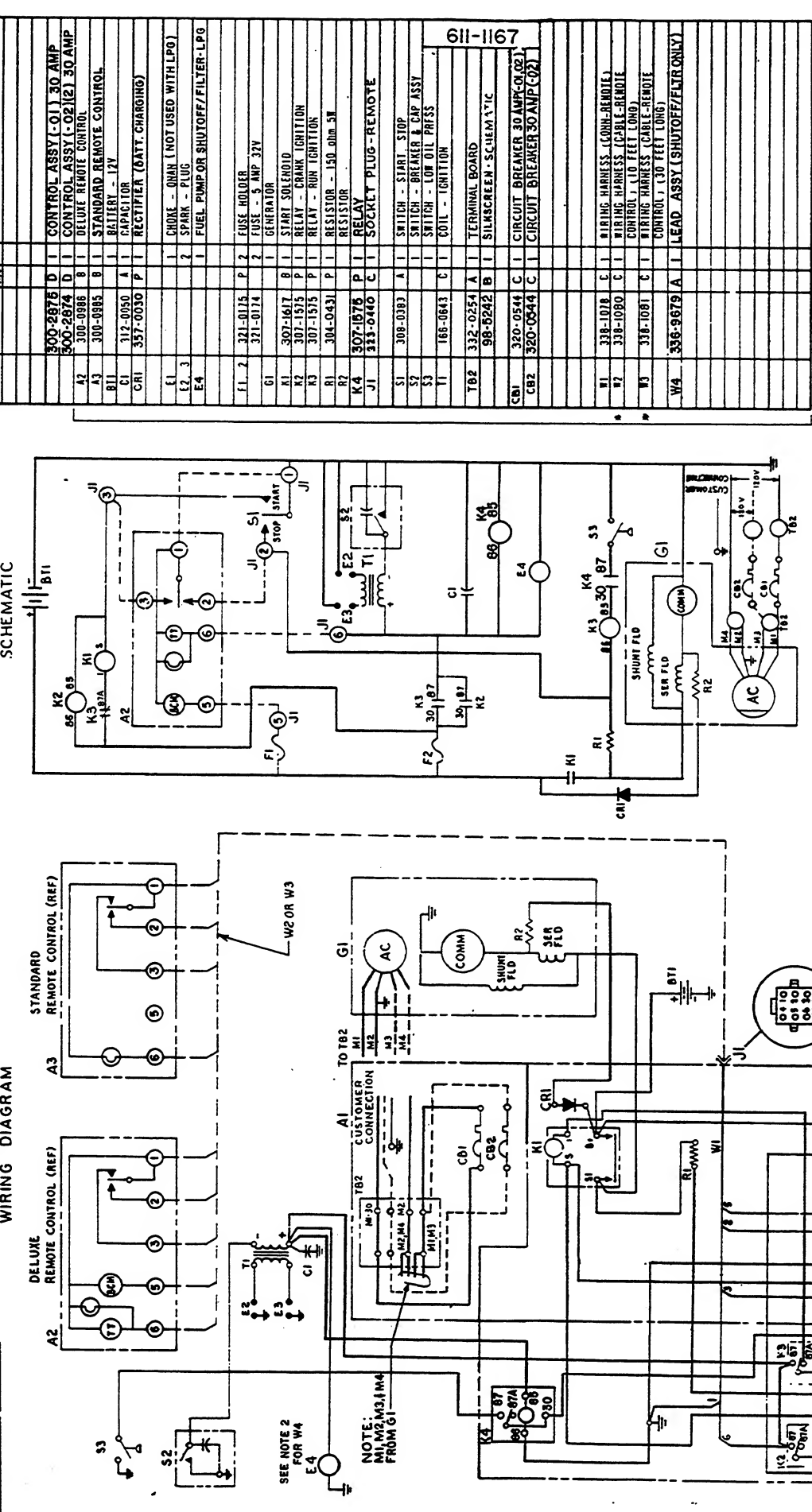
DATE  
INITIAL  
JC  
11-2-82  
1-13-83  
1-6-83  
1-6-83

991-1166

611-1167

WIRING DIAGRAM

611-1167



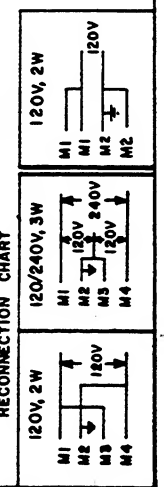
ALL PART NOS LISTED ARE REF ONLY

\* WHEN USED

THIS DOCUMENT SUBJECT TO FOLLOWING STANDARDS/CODES  
UL 1000 1000 1000 1000  
TO MAINTAIN THIS COMPLIANCE, NO CHANGES OR  
DEVIATIONS TO BE MADE W/O APPROVAL OF:  
COWI & SIDS ENR. 100007 1000 1000 1000  
SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTE:  
1. M2 IS GROUNDED IN GENERATOR  
2. W4 IS USED ONLY WHEN SHUTOFF/FILTER  
IS USED.

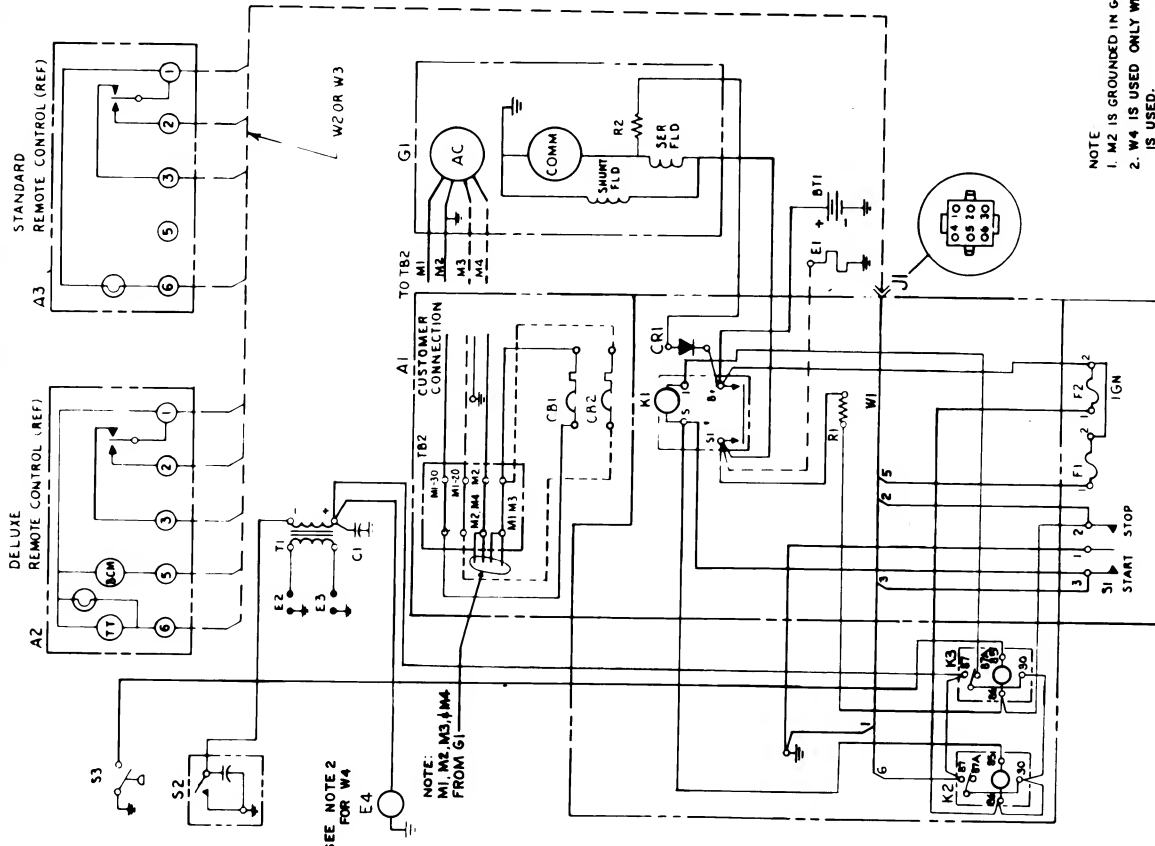
5.08GA, 6.5 NH  
RECONNECTION CHART



REF DES	PART NO.	QTY	DESCRIPTION
300-2875	D	1	CONTROL ASSY (01) 30 AMP
300-2876	D	1	CONTROL ASSY (02) 30 AMP
A2	300-0088	B	DELUXE REMOTE CONTROL
A3	300-0085	B	STANDARD REMOTE CONTROL
B1	112-0050	A	BATTERY - 12V
C1	357-0030	P	RECTIFIER (BATT. CHARGING)
E1			CHOKE - OHM (NOT USED WITH LPO)
E2, 3			SPARK - PLUG
E4			FUEL PUMP OR SHUTOFF/FILTER-LPO
F1, 2	321-0175	P	FUSE HOLDER
G1	321-0174	P	FUSE - 5 AMP 32V
H1	307-1617	B	START SOLENOID
H2	307-1515	P	RELAY - CRANK IGNITION
H3	307-1515	P	RELAY - RUN IGNITION
R1	304-0431	P	RESISTOR - 150 OHM 5W
R2			RESISTOR
K4	307-1576	P	RELAY
J1	313-0440	C	SOCKET PLUG-REMOTE
S1	308-0383	A	SWITCH - START, STOP
S2			SWITCH - BREAKER & CAP ASSY
S3	166-0643	C	SWITCH - LOW OIL PRESS
T1			COIL - IGNITION
TB2	332-0254	A	TERMINAL BOARD
98-8242	B	1	SILVERGREEN-SCHEMATIC
CB1	320-0544	C	CIRCUIT BREAKER 30 AMP (01, 02)
CB2	320-0544	C	CIRCUIT BREAKER 30 AMP (02)
W1	338-1018	C	WIRING HARNESS (CON-REMOTE)
W2	338-1080	C	WIRING HARNESS (CABLE-REMOTE)
W3	338-1081	C	WIRING HARNESS (CABLE-REMOTE)
W4	336-9679	A	LEAD ASSY (SHUTOFF/ELECTRONIC)

PROD. FILE NO. 23188  
REV. 10-17-83  
DIVISION OF OHAN CORPORATION  
Minneapolis, Minnesota  
CONTROL - GEN SET  
(WIRING DIAGRAM)  
611-1167

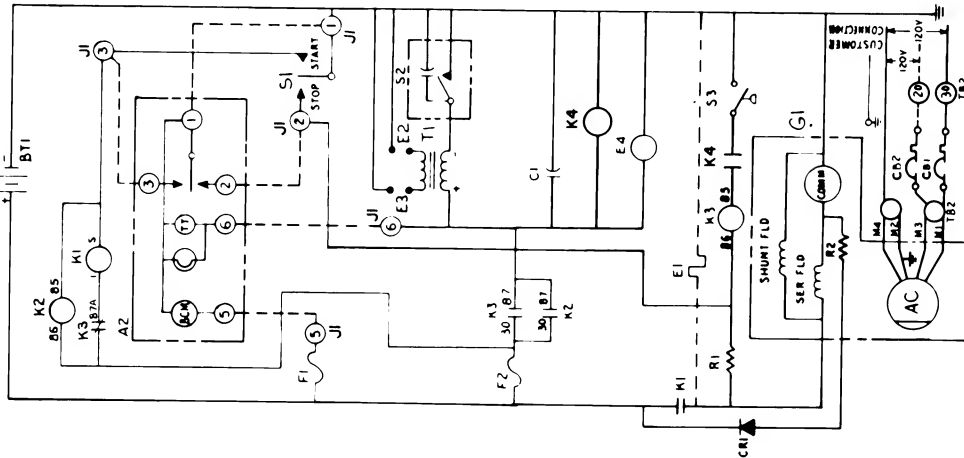
WIRING DIAGRAM



SEE NOTE 2  
FOR W4  
E4

NOTE:  
M1, M2, M3, M4  
FROM G1

SCHEMATIC



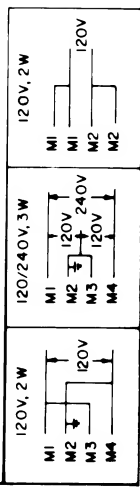
NOTE  
1. M2 IS GROUNDED IN GENERATOR  
2. W4 IS USED ONLY WHEN SHUTOFF / FILTER  
IS USED.

PARTS LIST

REF DES	PART NO	QTY	DESCRIPTION
	300-2708 D	1	CONTROL ASSY -01
	300-2709 D	1	CONTROL ASSY -02
ALL PART NOS LISTED BELOW ARE REF ONLY			
47	300-0986 B	1	DELUXE REMOTE CONTROL
48	300-0985 B	1	STANDARD REMOTE CONTROL
49	312-0050 A	1	CAPACITOR
CB1	320-0544 C	1	CIRCUIT BREAKER 30AMP (-01, -02)
CB2	320-0544 A	1	CIRCUIT BREAKER 30AMP (-02)
CR1	357-0030 P	1	RECTIFIER (BATT CHARGING)
E1			CHUKE - ONAN (NOT USED WITH LP6)
E2,3			2 SPARK - PLUG
E4			1 FUEL PUMP OR SHUTOFF / FILTER LP6
F1,2	321-0175 P	2	FUSE HOLDER
F2	321-0174 P	2	FUSE 5 AMP 32V
G1			1 GENERATOR
K1	307-1617 B	1	START SOLENOID
K2	307-1575 P	1	RELAY CRANK IGNITION
K3	307-1575 P	1	RELAY RUN IGNITION
R1	304-0431 P	1	RESISTOR 150 OHM 5W
R2			1 RESISTOR
JI	323-0440 C	1	SOCKET PLUG REMOTE
K1	308-0383 A	1	SWITCH START STOP
K2			1 SWITCH BREAKER & CAP ASSY
K3			1 SWITCH LOW OIL PRESS
T1	66-0843 C	1	COIL IGNITION
TB2	98-5242 B	1	SILKSCREEN SCHEMATIC
	332-0254 A	1	TERMINAL BOARD
			611-1169
			WIRING HARNESS (CONN REMOTE)
			WIRING HARNESS (CABLE REMOTE)
			CONTROL (30 FEET LONG)
			WIRING HARNESS (CABLE REMOTE)
			CONTROL (30 FEET LONG)
			LEAD ASSY (SHUTOFF / FLTR ONLY)

5.0BGA, 6.5NH

RECONNECTION CHART



THIS DOCUMENT SUBJECT TO FOLLOWING STANDARDS/CODES:  
UL ECA ☐ ☒ ☐  
TO MAINTAIN THIS COMPLIANCE, NO CHANGES OR  
DEVIATIONS TO BE MADE W/O APPROVAL OF  
CODES & STAND ENGR. ☒ UL ☐ IEC ☐ IPP ☐ ROBS

SIGNATURE: *[Signature]* DATE: *11-13-83*

-01 4.0BGA-1R/1604C

-02 6.3NHL-3CR/1604P

CONTROL GEN SET  
(WIRING DIAGRAM)

23158 - PROD RLSE

ER NO

11-8-83

JC

MINNESOTA

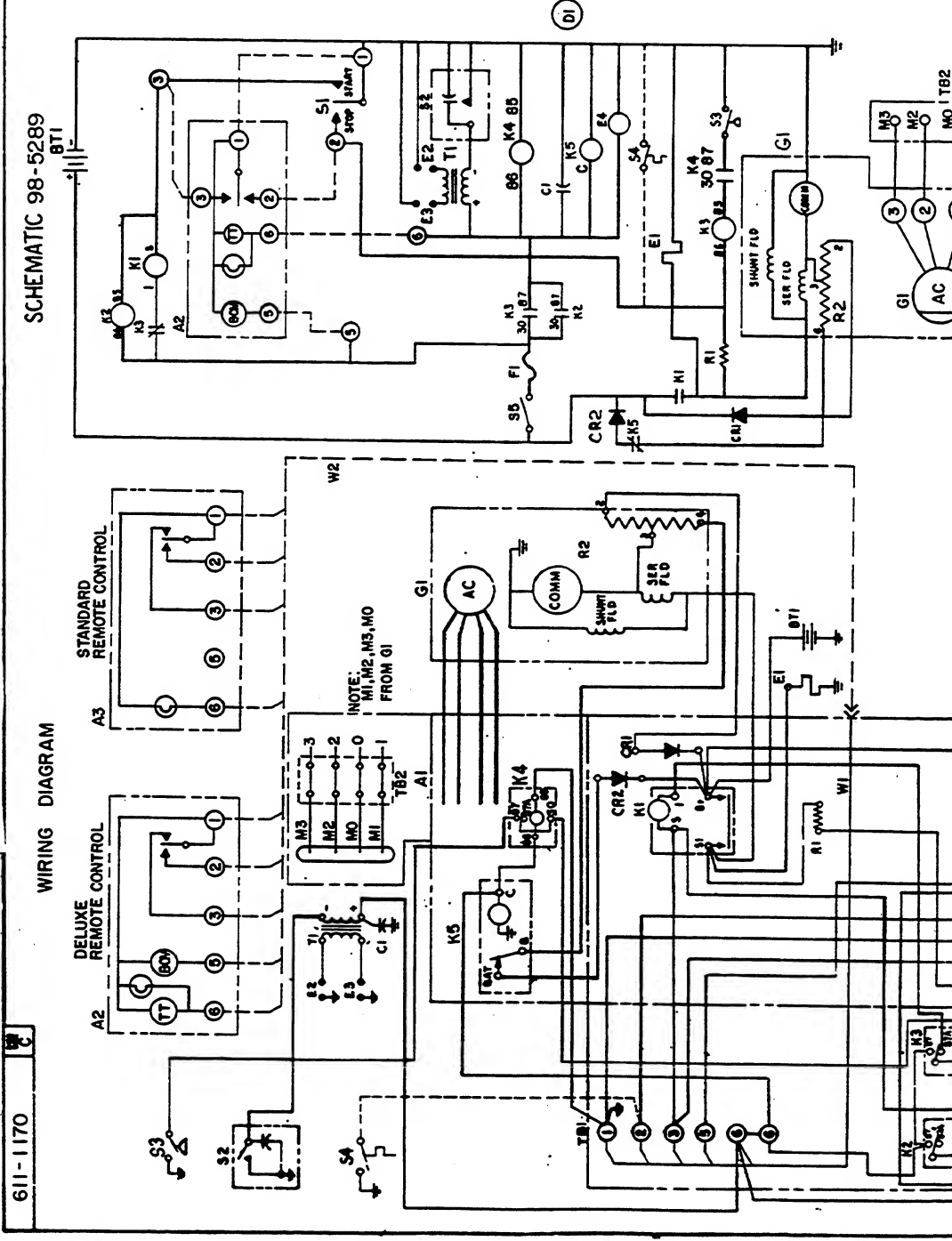
611-1147

611-1169

C

REF DES	PART NO.	QTY	DESCRIPTION
A1	300-2907 D	1	CONTROL ASSY (-OI)
ALL PART NOS LISTED BELOW ARE REF ONLY			
B1	312-0050	1	BATTERY - 12V
C1	317-0050	1	CAPACITOR
CH1	337-0050	1	RECTIFIER (BATT. CHARGING)
E1	148-1542	1	CHOKE - ONAN
E2	148-1542	1	CHOKE - PLUS
F1	321-0148	1	FUSE - 10 AMP 32V
G1	307-1676	1	START SOLENOID
H1	307-1676	1	RELAY - CHARGE
H2	307-1676	1	RELAY - RUN
H3	307-1676	1	RELAY - STOP
H4	307-1676	1	RELAY - CHARGE
H5	307-1676	1	RELAY - CHARGE
H6	307-1676	1	RELAY - CHARGE
H7	307-1676	1	RELAY - CHARGE
H8	307-1676	1	RELAY - CHARGE
H9	307-1676	1	RELAY - CHARGE
H10	307-1676	1	RELAY - CHARGE
H11	307-1676	1	RELAY - CHARGE
H12	307-1676	1	RELAY - CHARGE
H13	307-1676	1	RELAY - CHARGE
H14	307-1676	1	RELAY - CHARGE
H15	307-1676	1	RELAY - CHARGE
H16	307-1676	1	RELAY - CHARGE
H17	307-1676	1	RELAY - CHARGE
H18	307-1676	1	RELAY - CHARGE
H19	307-1676	1	RELAY - CHARGE
H20	307-1676	1	RELAY - CHARGE
H21	307-1676	1	RELAY - CHARGE
H22	307-1676	1	RELAY - CHARGE
H23	307-1676	1	RELAY - CHARGE
H24	307-1676	1	RELAY - CHARGE
H25	307-1676	1	RELAY - CHARGE
H26	307-1676	1	RELAY - CHARGE
H27	307-1676	1	RELAY - CHARGE
H28	307-1676	1	RELAY - CHARGE
H29	307-1676	1	RELAY - CHARGE
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H44	307-1676	1	RELAY - CHARGE
H45	307-1676	1	RELAY - CHARGE
H46	307-1676	1	RELAY - CHARGE
H47	307-1676	1	RELAY - CHARGE
H48	307-1676	1	RELAY - CHARGE
H49	307-1676	1	RELAY - CHARGE
H50	307-1676	1	RELAY - CHARGE
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H57	307-1676	1	RELAY - CHARGE
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H59	307-1676	1	RELAY - CHARGE
H60	307-1676	1	RELAY - CHARGE
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H62	307-1676	1	RELAY - CHARGE
H63	307-1676	1	RELAY - CHARGE
H64	307-1676	1	RELAY - CHARGE
H65	307-1676	1	RELAY - CHARGE
H66	307-1676	1	RELAY - CHARGE
H67	307-1676	1	RELAY - CHARGE
H68	307-1676	1	RELAY - CHARGE
H69	307-1676	1	RELAY - CHARGE
H70	307-1676	1	RELAY - CHARGE
H71	307-1676	1	RELAY - CHARGE
H72	307-1676	1	RELAY - CHARGE
H73	307-1676	1	RELAY - CHARGE
H74	307-1676	1	RELAY - CHARGE
H75	307-1676	1	RELAY - CHARGE
H76	307-1676	1	RELAY - CHARGE
H77	307-1676	1	RELAY - CHARGE
H78	307-1676	1	RELAY - CHARGE
H79	307-1676	1	RELAY - CHARGE
H80	307-1676	1	RELAY - CHARGE
H81	307-1676	1	RELAY - CHARGE
H82	307-1676	1	RELAY - CHARGE
H83	307-1676	1	RELAY - CHARGE
H84	307-1676	1	RELAY - CHARGE
H85	307-1676	1	RELAY - CHARGE
H86	307-1676	1	RELAY - CHARGE
H87	307-1676	1	RELAY - CHARGE
H88	307-1676	1	RELAY - CHARGE
H89	307-1676	1	RELAY - CHARGE
H90	307-1676	1	RELAY - CHARGE
H91	307-1676	1	RELAY - CHARGE
H92	307-1676	1	RELAY - CHARGE
H93	307-1676	1	RELAY - CHARGE
H94	307-1676	1	RELAY - CHARGE
H95	307-1676	1	RELAY - CHARGE
H96	307-1676	1	RELAY - CHARGE
H97	307-1676	1	RELAY - CHARGE
H98	307-1676	1	RELAY - CHARGE
H99	307-1676	1	RELAY - CHARGE
H100	307-1676	1	RELAY - CHARGE

24560	D	I	ADDED 332-0254	W1	12	12
24390	C	I	ADDED E1, CHOKES	W2	12	12
24091	B	I	WAS 5D 120/240V, 3PH	W3	12	12
23800	-	I	PROD RLSE	W4	12	12
ERNO	37	NO				



24560	D	I	ADDED 332-0254	W1	12	12
24390	C	I	ADDED E1, CHOKES	W2	12	12
24091	B	I	WAS 5D 120/240V, 3PH	W3	12	12
23800	-	I	PROD RLSE	W4	12	12
ERNO	37	NO				





## WIRING DIAGRAM

**SEE**

**REMOTE**

**NOTES:**

**J. JUMPER IS NEEDED FOR BATTERY CONDITION METER**

611-1174

C
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				JUMPER-WIRE TRANSFORMER
				IGN COIL
				IGN POINTS
				SWITCH - LOW OIL PRESSURE
				SWITCH-START/STOP
				RESISTOR-BATTERY CHARGE
				RELAY-USED WITH LPG ONLY
				START SOLENOID
				CHOKE
				GENERATOR
				FUSE
				FUEL PUMP/OR FUEL SOLENOID
				SPIRKT PLUG
				CIRCUIT BREAKER (AC OUTPUT)
				BRIDGE RECTIFIER
				RECTIFIER-USED WITH LPG ONLY
				CAPACITOR
				BATTERY 12V
				STARTER
				STANDARD REMOTE CONTROL
				DELUXE REMOTE CONTROL
				CONTROL ASSY

Do Not Scale Print	Tolerances unless otherwise specified mm      inch X ± .1 X .1 X .2 X .3 X .4 X .5 X .6 X .7 X .8 X .9 X 1.0 X 1.1 X 1.2 X 1.3 X 1.4 X 1.5 X 1.6 X 1.7 X 1.8 X 1.9 X 2.0 X 2.1 X 2.2 X 2.3 X 2.4 X 2.5 X 2.6 X 2.7 X 2.8 X 2.9 X 3.0 X 3.1 X 3.2 X 3.3 X 3.4 X 3.5 X 3.6 X 3.7 X 3.8 X 3.9 X 4.0 X 4.1 X 4.2 X 4.3 X 4.4 X 4.5 X 4.6 X 4.7 X 4.8 X 4.9 X 5.0 X 5.1 X 5.2 X 5.3 X 5.4 X 5.5 X 5.6 X 5.7 X 5.8 X 5.9 X 6.0 X 6.1 X 6.2 X 6.3 X 6.4 X 6.5 X 6.6 X 6.7 X 6.8 X 6.9 X 7.0 X 7.1 X 7.2 X 7.3 X 7.4 X 7.5 X 7.6 X 7.7 X 7.8 X 7.9 X 8.0 X 8.1 X 8.2 X 8.3 X 8.4 X 8.5 X 8.6 X 8.7 X 8.8 X 8.9 X 9.0 X 9.1 X 9.2 X 9.3 X 9.4 X 9.5 X 9.6 X 9.7 X 9.8 X 9.9 X 10.0 X 10.1 X 10.2 X 10.3 X 10.4 X 10.5 X 10.6 X 10.7 X 10.8 X 10.9 X 11.0 X 11.1 X 11.2 X 11.3 X 11.4 X 11.5 X 11.6 X 11.7 X 11.8 X 11.9 X 12.0 X 12.1 X 12.2 X 12.3 X 12.4 X 12.5 X 12.6 X 12.7 X 12.8 X 12.9 X 13.0 X 13.1 X 13.2 X 13.3 X 13.4 X 13.5 X 13.6 X 13.7 X 13.8 X 13.9 X 14.0 X 14.1 X 14.2 X 14.3 X 14.4 X 14.5 X 14.6 X 14.7 X 14.8 X 14.9 X 15.0 X 15.1 X 15.2 X 15.3 X 15.4 X 15.5 X 15.6 X 15.7 X 15.8 X 15.9 X 16.0 X 16.1 X 16.2 X 16.3 X 16.4 X 16.5 X 16.6 X 16.7 X 16.8 X 16.9 X 17.0 X 17.1 X 17.2 X 17.3 X 17.4 X 17.5 X 17.6 X 17.7 X 17.8 X 17.9 X 18.0 X 18.1 X 18.2 X 18.3 X 18.4 X 18.5 X 18.6 X 18.7 X 18.8 X 18.9 X 19.0 X 19.1 X 19.2 X 19.3 X 19.4 X 19.5 X 19.6 X 19.7 X 19.8 X 19.9 X 20.0 X 20.1 X 20.2 X 20.3 X 20.4 X 20.5 X 20.6 X 20.7 X 20.8 X 20.9 X 21.0 X 21.1 X 21.2 X 21.3 X 21.4 X 21.5 X 21.6 X 21.7 X 21.8 X 21.9 X 22.0 X 22.1 X 22.2 X 22.3 X 22.4 X 22.5 X 22.6 X 22.7 X 22.8 X 22.9 X 23.0 X 23.1 X 23.2 X 23.3 X 23.4 X 23.5 X 23.6 X 23.7 X 23.8 X 23.9 X 24.0 X 24.1 X 24.2 X 24.3 X 24.4 X 24.5 X 24.6 X 24.7 X 24.8 X 24.9 X 25.0 X 25.1 X 25.2 X 25.3 X 25.4 X 25.5 X 25.6 X 25.7 X 25.8 X 25.9 X 26.0 X 26.1 X 26.2 X 26.3 X 26.4 X 26.5 X 26.6 X 26.7 X 26.8 X 26.9 X 27.0 X 27.1 X 27.2 X 27.3 X 27.4 X 27.5 X 27.6 X 27.7 X 27.8 X 27.9 X 28.0 X 28.1 X 28.2 X 28.3 X 28.4 X 28.5 X 28.6 X 28.7 X 28.8 X 28.9 X 29.0 X 29.1 X 29.2 X 29.3 X 29.4 X 29.5 X 29.6 X 29.7 X 29.8 X 29.9 X 30.0 X 30.1 X 30.2 X 30.3 X 30.4 X 30.5 X 30.6 X 30.7 X 30.8 X 30.9 X 31.0 X 31.1 X 31.2 X 31.3 X 31.4 X 31.5 X 31.6 X 31.7 X 31.8 X 31.9 X 32.0 X 32.1 X 32.2 X 32.3 X 32.4 X 32.5 X 32.6 X 32.7 X 32.8 X 32.9 X 33.0 X 33.1 X 33.2 X 33.3 X 33.4 X 33.5 X 33.6 X 33.7 X 33.8 X 33.9 X 34.0 X 34.1 X 34.2 X 34.3 X 34.4 X 34.5 X 34.6 X 34.7 X 34.8 X 34.9 X 35.0 X 35.1 X 35.2 X 35.3 X 35.4 X 35.5 X 35.6 X 35.7 X 35.8 X 35.9 X 36.0 X 36.1 X 36.2 X 36.3 X 36.4 X 36.5 X 36.6 X 36.7 X 36.8 X 36.9 X 37.0 X 37.1 X 37.2 X 37.3 X 37.4 X 37.5 X 37.6 X 37.7 X 37.8 X 37.9 X 38.0 X 38.1 X 38.2 X 38.3 X 38.4 X 38.5 X 38.6 X 38.7 X 38.8 X 38.9 X 39.0 X 39.1 X 39.2 X 39.3 X 39.4 X 39.5 X 39.6 X 39.7 X 39.8 X 39.9 X 40.0 X 40.1 X 40.2 X 40.3 X 40.4 X 40.5 X 40.6 X 40.7 X 40.8 X 40.9 X 41.0 X 41.1 X 41.2 X 41.3 X 41.4 X 41.5 X 41.6 X 41
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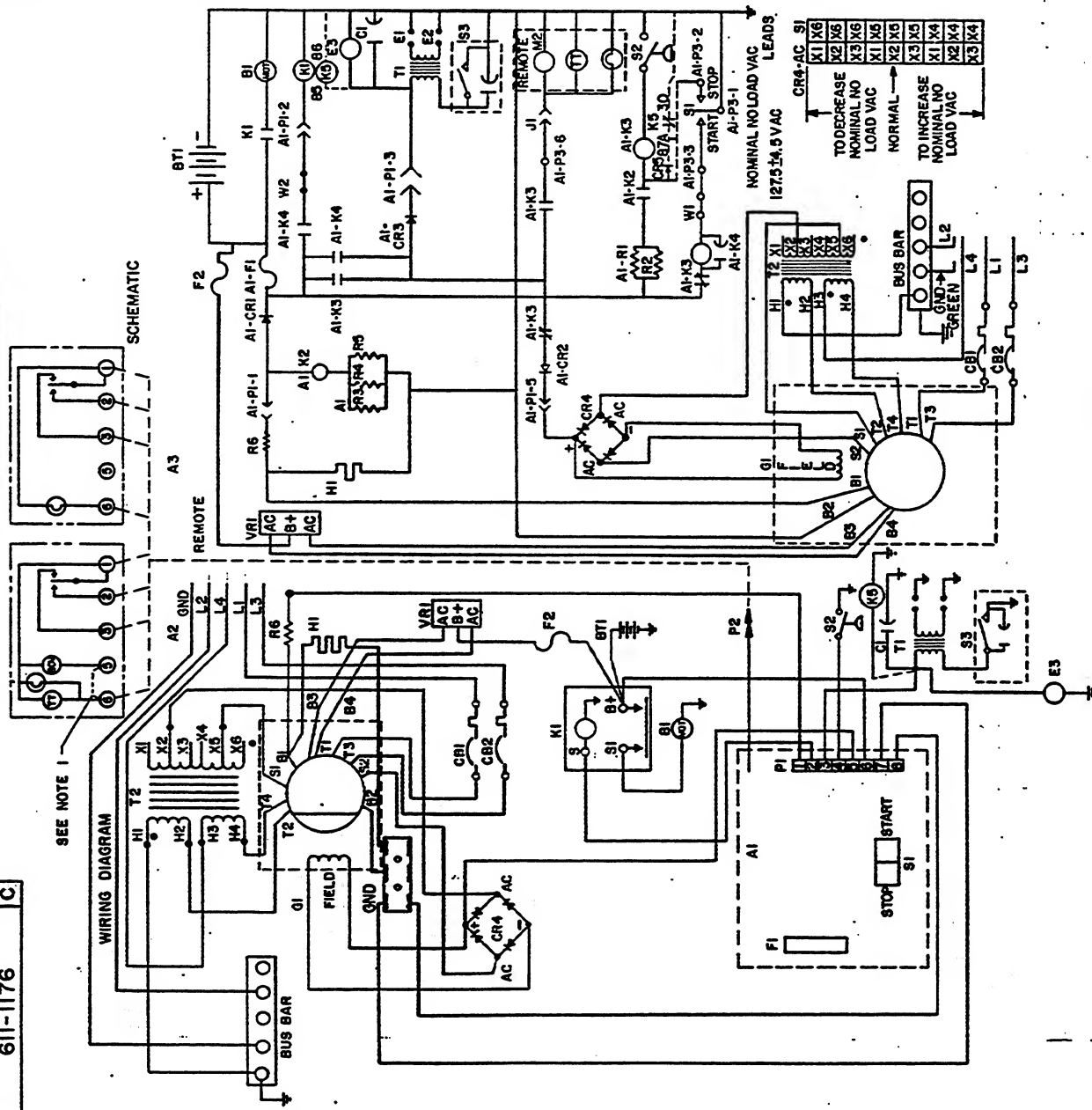
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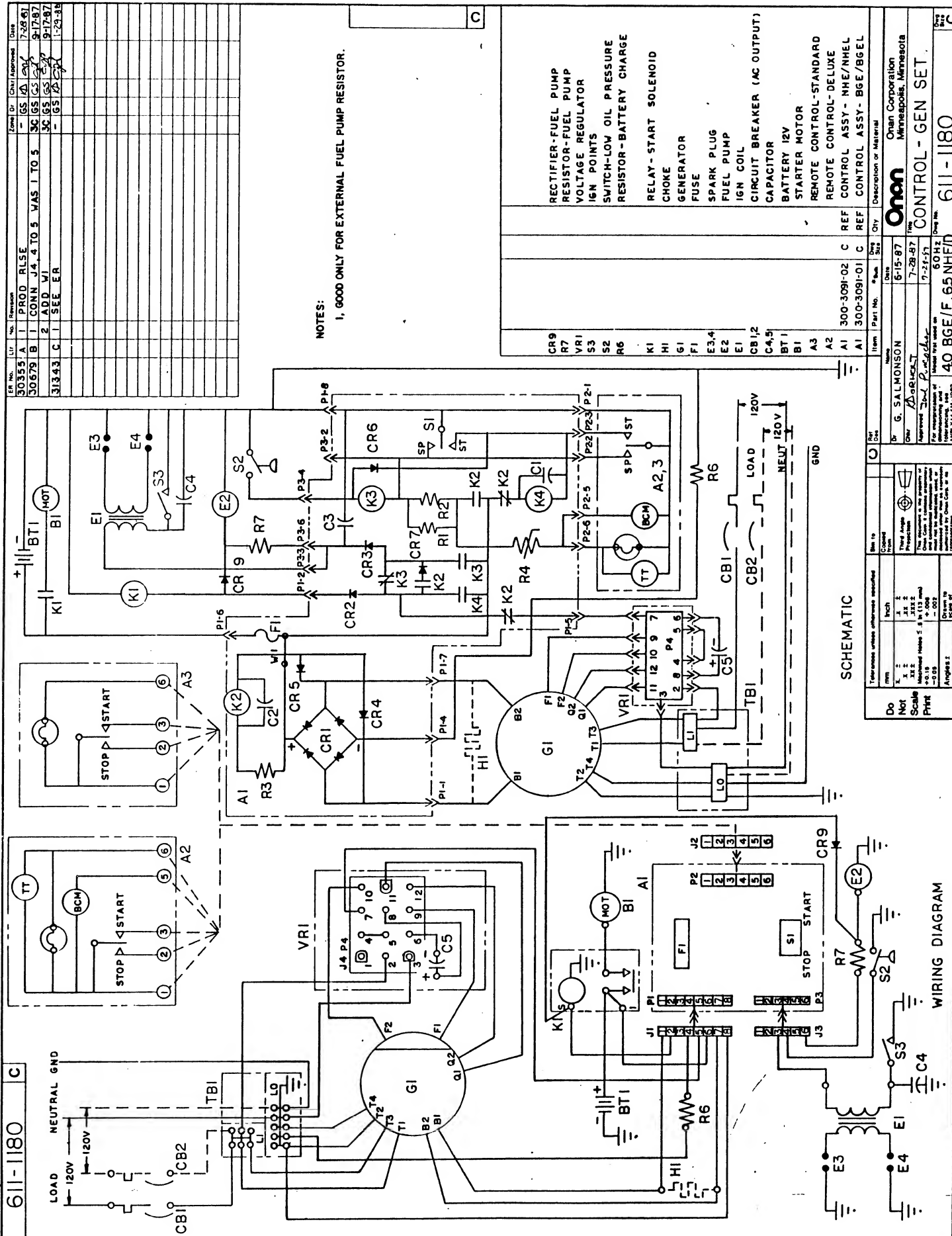
611-1174

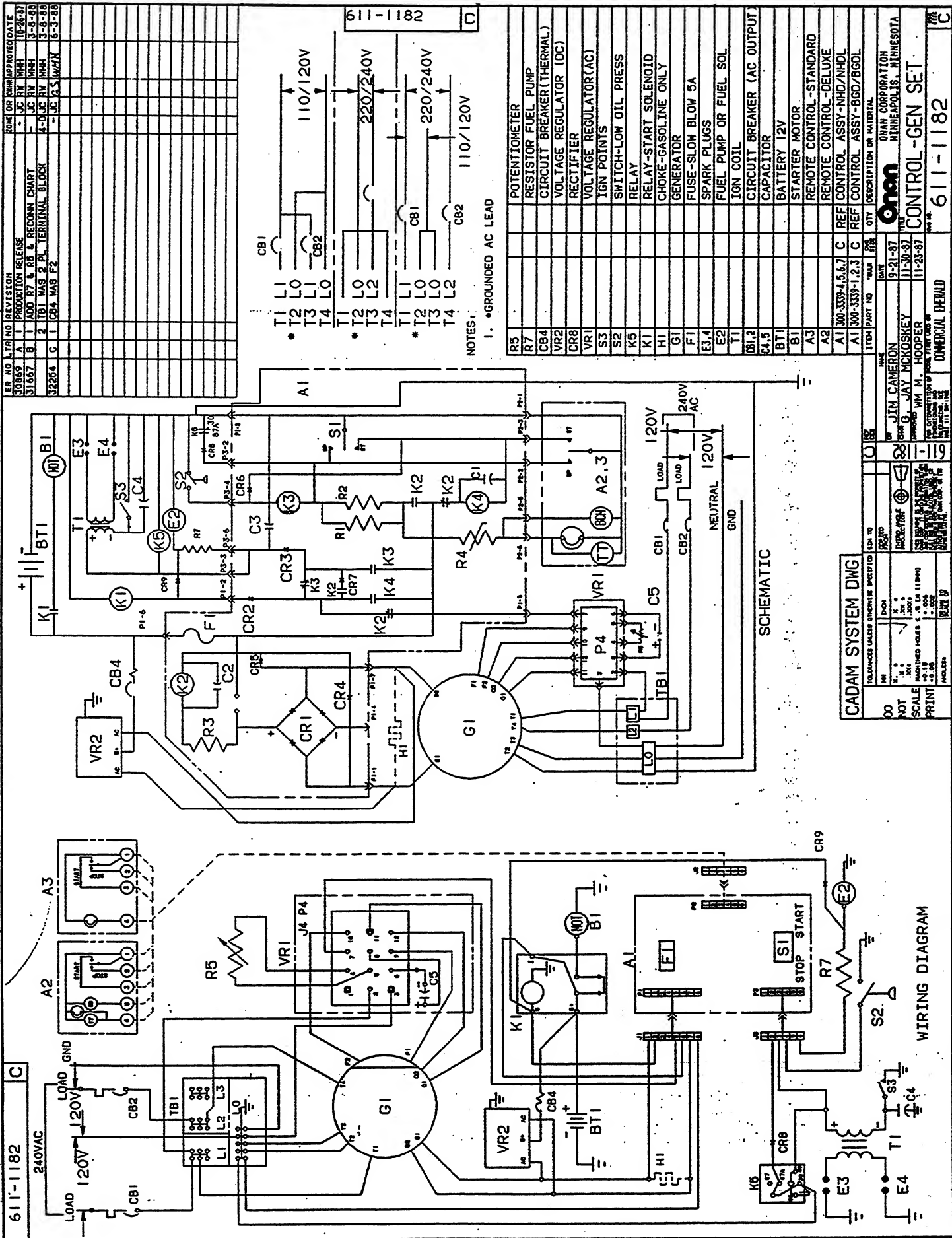
Size 6W6

611-1176

C



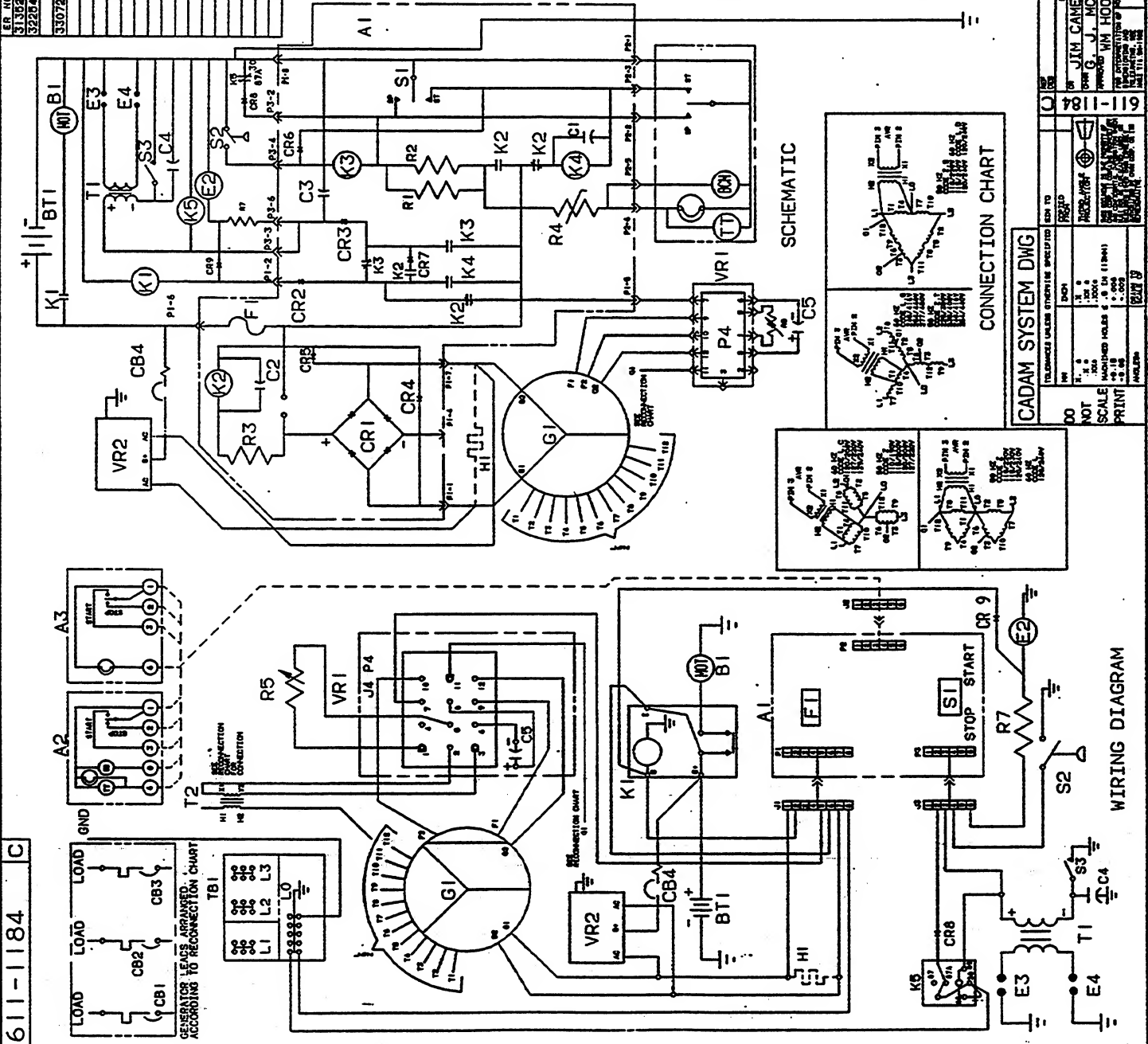




611-1184 C

REV. NO.	DATE	REVISION
31352	A	1 PROMOTION RELEASE
32284	B	1 ADD T2 TRANSFORMER
33072	C	1 J4-1 CONNECTION WAS J4-4
	2	2 CR6 LEAD WAS TO P2-2, P3-2

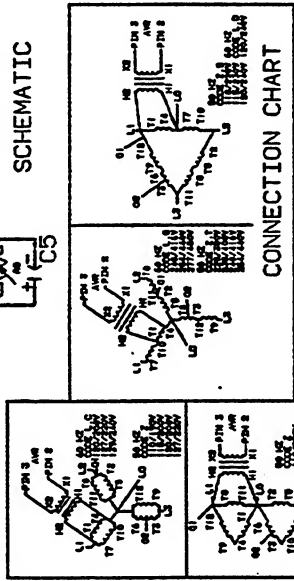
611-1184 C



WIRING DIAGRAM

CADAM SYSTEM DWG

NO.	REV.	DATE	BY	CHKD.	APP'D.
00	NOT	SCALE	PRINT		



SCHEMATIC

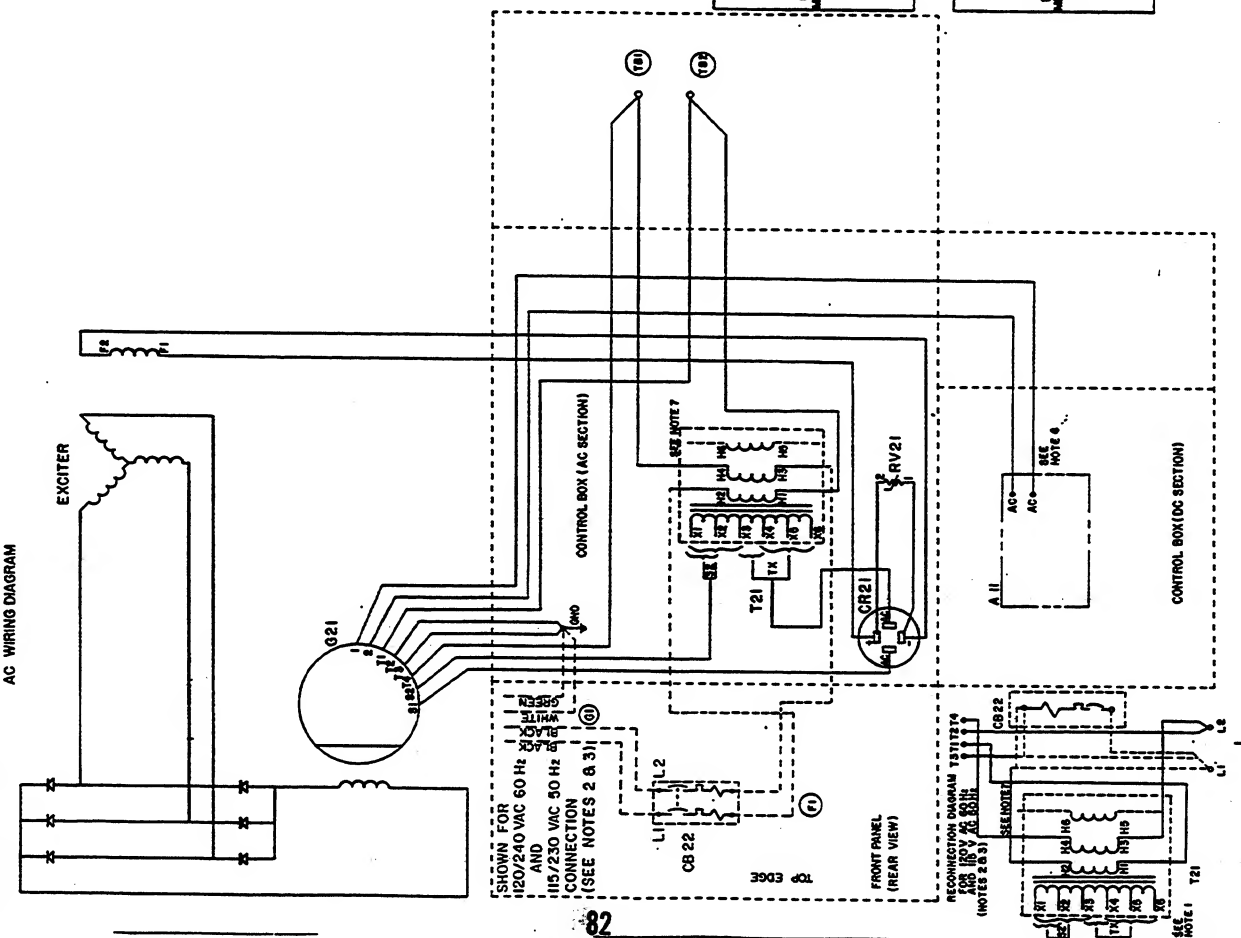
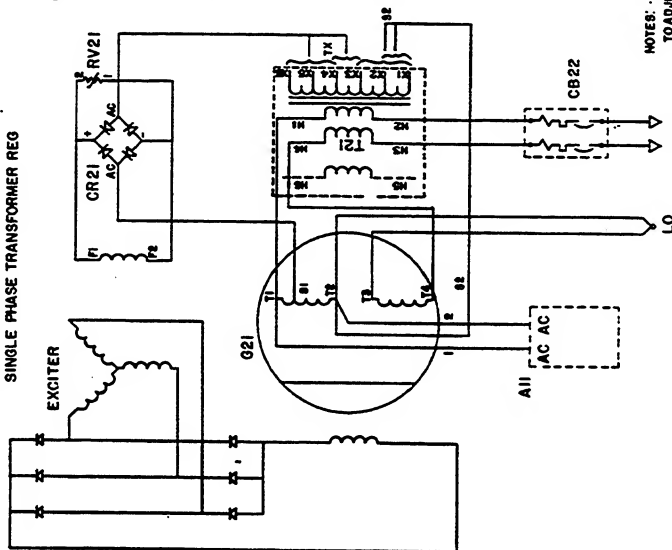
T2	TRANSFORMER VOLTAGE REC
CB4	CIRCUIT BREAKER (THERMAL)
VR2	VOLTAGE REGULATOR (DC)
CR8	RECTIFIER
VR1	VOLTAGE REGULATOR (AC)
S3	IGN POINTS
S2	SWITCH-LOW OIL PRESS
K5	RELAY
K1	RELAY-START SOLENOID
H1	CHOKE-GASOLINE ONLY
F1	GENERATOR
E3,4	FUSE-SLOW BLOW 5A
E2	SPARK PLUGS
T1	FUEL PUMP OR FUEL SOL
CR2,3	IGN COIL
C4,5	CAPACITOR
BT1	BATTERY 12V
A3	STARTER MOTOR
A2	REMOTE CONTROL-STANDARD
A1	REMOTE CONTROL-DELUXE
A1 300-3459-02	C REF CONTROL ASSY-NHD/NHDL
A1 300-3459-01	C REF CONTROL ASSY-BGD/8GDL

ITEM	QTY	DESCRIPTION OR MATERIAL
1	1	ONAN CORPORATION MINNEAPOLIS, MINNESOTA
2	2	CONTROL-GEN SET

611-1184 C



### AC SCHEMATIC SINGLE PHASE TRANSFORMER REG



OUTPUT VOLTAGE ADJUSTMENT	NO. 10/140V		NO. 10/220V		NO. 10/240V	
	TAP POSITION	TX	TAP POSITION	TX	TAP POSITION	TX
INCREASE	X2	X3	X5	X6	X3	X4
STD	X1	X3	X2	X6	X2	X4
DECREASE	X2	X4	X1	X6	X1	X4

OUTPUT ADJUSTMENT	50Hz (50)		50Hz (60)	
	EQ. 102 240V TAP POSITION SE	TA	104, 102 220V TAP POSITION SE	110, 102 230V TAP POSITION SE
DRO DOWN	INCREASE	X2 X1	X3 X1	X3 X1
	STO	X1	X2	X2
	DECREASE	X1	X4	X4

- NOTES:
1. FOR INPUT OUTPUT VOLTAGE, MOVE TAPS ON T21 ACCORDING TO TABLE 1.
  2. ALL VOLTAGE CONNECTIONS (500V) SHOULD LEAVE T1 AND T4 IN LINE WITH VOLTAGE CONNECTIONS FOR 12T1 AND 12T2.
  3. FOR 60HZ: USE 32 LEAD (FROM GEN) ON TAPS X1-X2  
(4 TAPS) USE TX LEAD ON TAPS X3-X4
  4. FOR 60HZ: USE 82 LEAD (FROM GEN) ON TAPS X1-X3  
(6 TAPS) USE TX LEAD ON TAPS X4-X6
    - a. FOR 120/240V AND 120V CONNECT H6 TO H5.
    - b. FOR 110V CONNECT H6 TO T31 AND H3 TO T21 (2).
    - c. FOR 110/280V USE H6 FOR L1 AND H3 FOR L2 AND T3 ARE NOT USED
    - d. FOR 120/220V AND 110V INSULATE H6 AND H6 NOT USED
    - e. FOR 120/240V AND 120V CONNECT H6 TO T31 AND H3 TO T21 (2).
    - f. FOR 120/240V USE H6 FOR L1 AND H3 FOR L2 AND T3 ARE NOT USED
    - g. FOR 120/240V USE H6 FOR L1 AND H3 FOR L2 AND T3 ARE NOT USED
  5. UNLESS OTHERWISE NOTED, ALL COMPONENTS ARE SHOWN IN THE DE-ENERGIZED POSITION.

**5. DASHED LINES INDICATE WHEN USED.**

6. ALL CONNECTION ON -3CR-53CR MODELS ONLY. INSULATE LEADS ON -3CE/53CE MODELS.

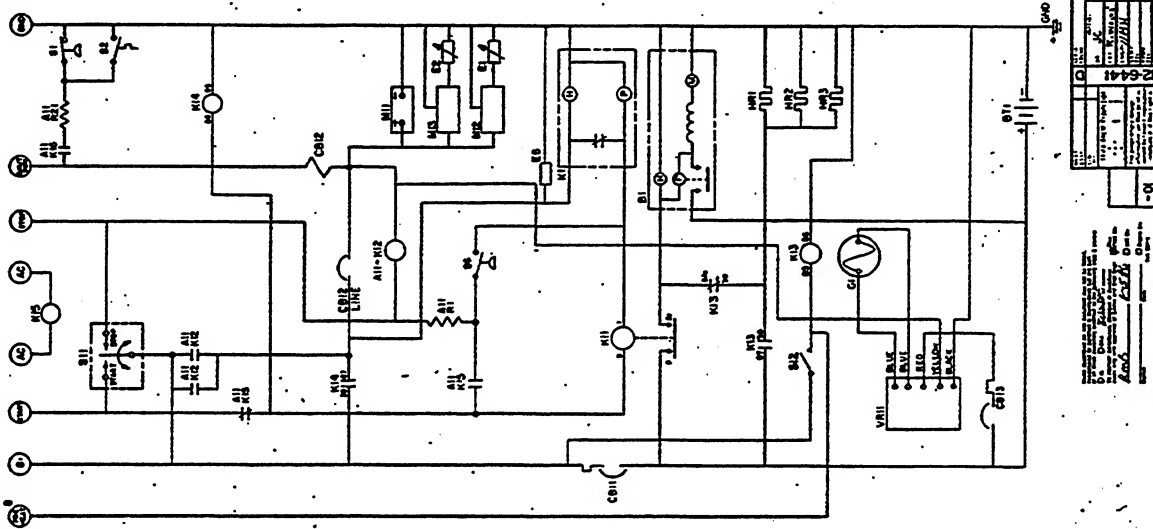
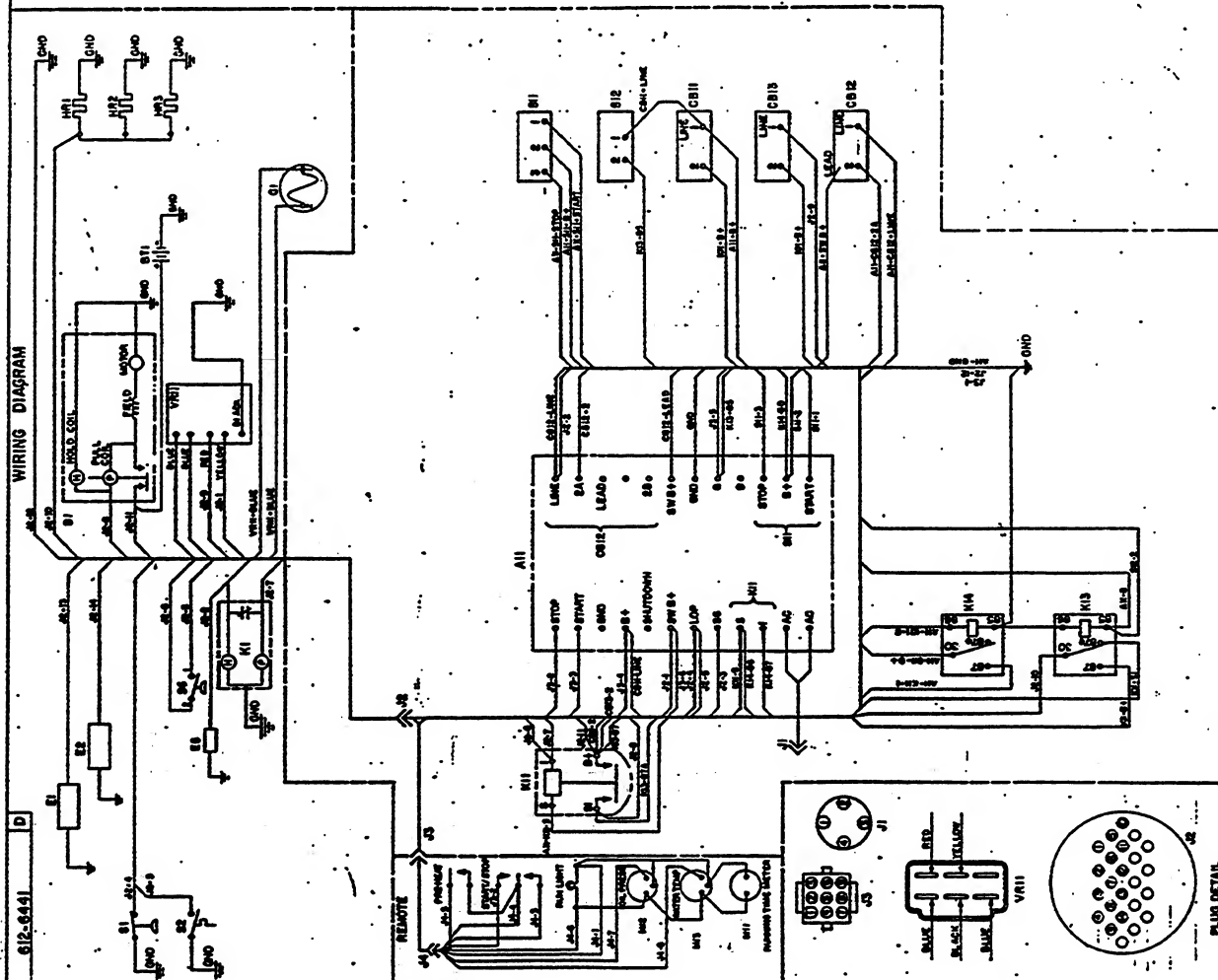
26897 G	I	ADDED BLK, BLK,	6 C	W/12	9-11-83
		WHT, & GRN WIRE			
26874 F	I	DEL T10 T4 LAMP	5 B	W/12	8-2-83
26873 D	I	REVISED NOTE 4	2 A	W/12	10-28-84
26870 C	I	ADD C822	1 A	W/12	2-8-83
26868 C	I	DEL T10 T4 LAMP	5 B	W/12	1-1-83
26866 A	I	REVISED NOTE 2	3 B	W/12	8-2-83
26865 A	I	ADD T10 T4 LAMP	5 B	W/12	10-28-84

DATE	TIME	NAME	UNIT	GRADE	DATE
10/10/54	10:15	WILLIAM	101	100	10/10/54
<p><b>Onan</b>      <b>440 CONTROL</b></p> <p>UNIT: 7-1-83      IN: 34      FROM: 660      TO: 22</p> <p>TITLE:      CONTROL-GENSETAC (IPH)</p> <p>REVISION: 10      FROM: 010      TO: 010      A      SHIT: 1      10/10/54</p>					









01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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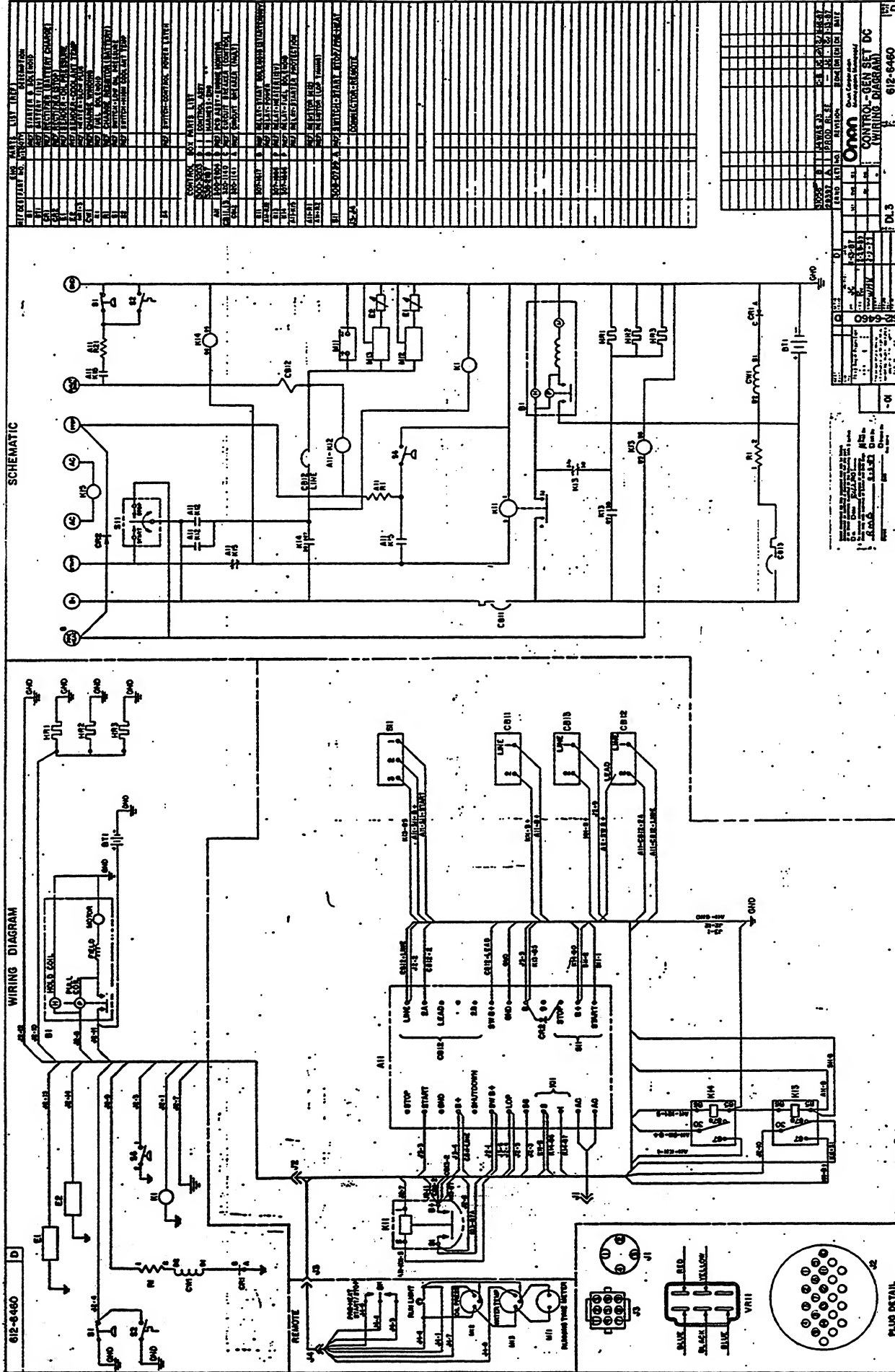
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# SCHEMATIC

# WIRING DIAGRAM

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